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REMEDIAL ASSESSMENT AND SOIL EXCAVATION REPORT FORMER GENERAL MOTORS CORPORATION ALLISON GAS TURBINE DIVISION, PLANT 10 **KERAMIDA PROJECT NO. 2829E** 700 NORTH OLIN AVENUE INDIANAPOLIS, INDIANA **IDEM VRP #6991004**

Submitted to

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Erin Brittain, Project Manager Voluntary Remediation Program Office of Land Quality 100 North Senate Avenue Indianapolis, Indiana 46204

Submitted for:

GENUINE PARTS COMPANY

Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.

401 North College Avenue Indianapolis, Indiana 46202 317/685-6600

July 23, 2007



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EXECUTIVE SUMMARY

conducted during the period of July 22, 2004 through June 28, 2006. The purpose of the RA was based on the conclusions identified during this RA at the former General Motors Corporation, trichloroethylene (TCE)-impacted soils. was conducted during the period of August 21 through October 16, 2006 to remove residual 10-1R (eastern source area). Based on RA activities, soil excavation in the western source area contamination reduction in the area of monitoring well MW-153 (western source area) and MWto determine if residual source materials were affecting volatile organic compound (VOC) Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). The RA was (Genuine Parts) to perform a Remedial Assessment (RA) and to implement a remedial action KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by the Genuine Parts Company

dichloroethylene (cis-1,2-DCE) concentrations in groundwater at MW-153 were observed to facilitate remediation as documented in the Remediation Work Plan (RWP). However, dissolved A combined air sparging / soil vapor extraction Remediation System is used at the (remedial objectives). fluctuate above and below their respective Indiana Department of Environmental Management concentrations in groundwater at MW-153 and MW-10-1R and dissolved cis-1,2-Voluntary Remediation Program (VRP) Tier II Non-Residential Cleanup Goals

REMEDIAL ASSESSMENT

area in areas not previously excavated and around the VOC and Lead soil "hot spot." source areas monitoring well network during and after RA activities to monitor the western and eastern proximal to MW-10-1R. In addition, KERAMIDA conducted quarterly sampling events of the KERAMIDA also advanced soil borings in the eastern source area in up-gradient locations KERAMIDA completed exploratory trenching and advanced soil borings in the western source

Western Source Area

objectives were found in soils and groundwater. Impacts were divided into three general areas No new areas of residual source materials were found, yet VOC impacts above remedial Northwestern Remediation System. Based on RA and quarterly groundwater sampling results located between the Northwestern and Southwestern Remediation Systems and within the

impacted soils with off-Site disposal was selected along with the continued operation of the including lithology, options to attain remedial objectives were evaluated and the excavation of Southwestern Remediation System.

Eastern Source Area

MW-10-1R had a TCE concentration well below its remedial objective contained a TCE concentration above its remedial objective, however; a sample collected from concentrations below their respective remedial objective. groundwater samples probe location at a concentration well below its remedial objective. No new areas of residual source materials were found. TCE was detected in soil in one push collected from the push probe borings One sample, near MW-10-1R, contained All but one of the contaminant

concentrations, for the fifth quarter since the system was shut down, have remained below their quarters of groundwater VOC concentrations below remedial objectives. Based on the results from quarterly groundwater monitoring conducted following RA activities, remedial objectives Eastern Remediation System was shut down on January 30, 2006, based on four consecutive Groundwater VOC

SOIL EXCAVATION ACTIVITIES

detected from soil collected from the sidewall of the excavation at the Holt Road entrance. detected at a concentration above its remedial objective in one small area. Vinyl chloride was concentrations below remedial objectives. However, one VOC constituent, vinyl chloride, was impacted soil occurrence identified in the western source area has been remediated to hazardous soil were removed and disposed of off-Site at a Subtitle "C" Landfill. The TCE-A total of 3,670 tons of TCE-impacted hazardous soil and 4,814 tons of TCE-impacted nonto the close proximity of the right-of-way for Holt Road further excavation was not feasible. further remediation of soil associated with the western source area appears warranted

removal and off-Site disposal of TCE-impacted soils have indicated that groundwater VOC concentrations are below remedial objectives Quarterly groundwater sampling events conducted in the western source area following the

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- Well Abandonment Records
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1.0 INTRODUCTION

contamination reduction in the area of monitoring well MW-153 (western source area) and MWto determine if residual source materials are affecting volatile organic compound (VOC) conducted during the period of July 22, 2004 through June 28, 2006. The purpose of the RA was Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). The RA was based on the conclusions identified during this RA at the former General Motors Corporation, (Genuine Parts) to perform a Remedial Assessment (RA) and to implement a remedial action KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by the Genuine Parts Company was conducted during the period of August 21 through October 16, 2006 to remove residual activities and provides conclusions based on RA and soil remedial activities results (IDEM) Voluntary Remediation Program (VRP). Site is being administered through the Indiana Department of Environmental Management trichloroethylene (TCE)-impacted soils in the western source area. Regulatory closure of the 10-1R (eastern source area). Based on RA activities, soil excavation in the western source area The following report documents

2.0 SITE BACKGROUND

Genuine Parts, through acquisition and merger, subsequent to the sale of the property to General mid-1980s, at which time the property became part of the AGT Division. BHT became a part of 1973 and used the facility for warehousing obsolete machines, tooling, and fixtures until the and brake re-manufacturing. General Motors Corporation purchased the property from BHT in Plant 10. Between 1956 and 1973, BHT Corporation (BHT) operated the facility for carburetor Indiana (see Figure 1). The property is the former Site of the General Motors Corporation, AGT The subject property is located at 700 North Olin Avenue in Marion County, Indianapolis, when the property was sold to the Allison Engine Company (AEC). AEC sold the facility to Motors Corporation. AGT continued to use the facility for warehousing until December 1993

Clay Company, Inc. in 2002 (current property owner). Associated Properties, Inc. in 1998. Associated Properties, Inc. sold the facility to American Art

areas is presented as Figure 2. Residential Cleanup Goals (remedial objectives). A Site map showing Site features near the RA MW-153 were observed to fluctuate above and below their respective IDEM VRP Tier II Non-10-1R and dissolved cis-1,2-dichloroethylene (cis-1,2-DCE) concentrations in groundwater at August 16, 2004. However, dissolved TCE concentrations in groundwater at MW-153 and MWfacilitate remediation as documented in Section 8.2 of the Remediation Work Plan (RWP) dated A combined air sparging / soil vapor extraction Remediation System is utilized at the Site to

3.0 REMEDIAL ASSESSMENT

advanced soil borings in the eastern source area in up-gradient locations proximal to MW-10-1R. mounted Geoprobe® percussive rig in the western source area in areas not previously excavated reduction in the area of MW-153 (western source area) and MW-10-1R (eastern source area) network during and after RA activities to monitor the western and eastern source areas and around the VOC and Lead soil "hot spot" (See section 8.3 of the RWP). KERAMIDA also KERAMIDA completed exploratory trenching and advanced soil borings using a Bobcat® The purpose of the RA is to determine if residual source materials are affecting contamination In addition, KERAMIDA has conducted quarterly sampling events of the monitoring well

3.1 FIELD METHODS

are documented quarterly to the IDEM in Remediation System Evaluation Reports Field methods used during the quarterly groundwater sampling of the monitoring well network

3.1.1 Exploratory Trenching - Western source Area

completed by KERAMIDA personnel. Mr. William Wieringa, the IDEM VRP Project Manager trenches were excavated using a track-mounted mini-excavator. All work was supervised and Prior to the commencement of field activities, KERAMIDA contacted Indiana Underground for part of the day on July 22, 2004. Exploratory trenching locations are depicted on Figure 3. for this facility, during this timeframe, and Mr. Bob Lewis with Genuine Parts were also present KERAMIDA performed test-trenching activities at the Site on July 22 and 23, 2004. The test Plant Protection Service (IUPPS) to mark all underground public utilities at the

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backfilled and compacted using the mini-excavator. detector (PID). At the end of each day, following inspections and soil screening, trenches were were inspected for residual source materials and were field screened using a photoionization placed adjacent to their respective trenches. These soils along with trench walls and bottoms of 3.5 to 4.5 feet, which was approximately 2 to 3 feet into native material. Excavated soils were The exploratory trenches were excavated to a maximum depth of six feet with an average depth

3.1.2 Geoprobing - Western source Area

Plant Protection Service (IUPPS) to mark all underground public utilities and KB-72), and June 28, 2006 (borings KB-73 through KB-78). through KB-59), September 14, 2004 (KB-60 through KB-65), October 3, 2005 (borings KB-71 Prior to the commencement of field activities, KERAMIDA contacted Indiana Underground KERAMIDA performed probing activities at the Site on August 10 and 11, 2004 (borings KB-52

evaluate remedial progress within the VOC and Lead soil "hot spot" in accordance with Section through 78 are depicted on Figures 4 through 6. KERAMIDA personnel. Bobcat[®] mounted Geoprobe[®] November 19, 2004 and December 6, 2005, respectively. Probing was completed using a both the July through September (2004 & 2005) Remediation System Evaluation Reports dated 8.4. of the RWP. Soils remedial progress within the "hot spot" is documented in Section 6.1.3 of Probing activities at borings KB-55/55a, KB-57/57a, KB-71, and KB-72 were conducted to The locations of borings KB-52 through KB-65 and borings KB-71 percussive rig. All work was supervised and completed by

activities included screening with a PID and an olfactory inspection. Boring logs are provided in for soil texture identification, field screening, and possible laboratory analysis. Field screening Continuous soil cores were extracted at 4-foot intervals from each boring to obtain soil samples All borings were advanced to a maximum depth of 16 feet below ground surface (bgs). Attachment 1.

All soil samples were submitted to Heritage Environmental Services, LLC Commercial Soil samples were collected from the borings at various depths based on field screening data. Environmental Protection Agency (USEPA) SW-846 Method 8260B. Laboratory Operations (Heritage-CLO) of Indianapolis, Indiana, for VOC analysis using U.S.

KB-77, at an approximate depth of 11 feet bgs in boring KB-78, and at an approximate depth of through KB-59, at an approximate depth of 12 feet bgs in borings KB-60 through KB-65 and Groundwater was encountered during the sampling events in sand or a mixture of sand and peristaltic pump through temporary well points equipped with a 4-foot screens (KB-52 through analysis using USEPA SW-846 Method 8260B. was first encountered in each boring. Groundwater samples were sent to Heritage-CLO for VOC KB-55) and 5-foot screens (KB-60 through KB-65) all set across the zone where groundwater 10.5 feet bgs in borings KB-73 through KB-76. Groundwater samples were collected using a Groundwater was encountered at an approximate depth of 15 feet bgs in borings KB-52

3.1.3 Geoprobing - Eastern source Area

underground public utilities at the Site. KERAMIDA performed probing activities at the Site on Prior to the commencement of field activities, KERAMIDA contacted IUPPS to mark with the IDEM and Mr. Bob Lewis with Genuine Parts were also present for part of the day on April 27 and 28, 2005. Probing was completed using a Bobcat® April 27, 2005. The locations of borings KB-66 through KB-70 are depicted on Figure 7. All work was supervised and completed by KERAMIDA personnel. Mr. William Wieringa mounted Geoprobe® percussive

cores were extracted at 4-foot intervals from each boring to obtain soil samples for soil texture identification, field screening, and possible laboratory analysis. Borings were advanced to a maximum depth ranging from 16 to 36 feet bgs. Continuous soil Attachment 1. included screening with a PID and an olfactory inspection. Boring logs are provided in Field screening activities

USEPA SW-846 Method 8260B. apparent staining. KERAMIDA collected one soil sample from boring KB-70 for laboratory analysis because of This soil sample was submitted to Heritage-CLO for VOC analysis using

ranging from 10-12 feet bgs. Groundwater samples were collected from KB-66 through KB-70 Groundwater was encountered in sand or a mixture of sand and gravel at approximate depths using a peristaltic pump through temporary well points equipped with 4-foot screens all set collected for possible laboratory analysis. groundwater samples from each boring, in 4-foot intervals as boring depth increased, were also across the zone where groundwater was first encountered in each boring. These groundwater samples were collected

vertically identify groundwater impacts. Groundwater samples were sent to Heritage-CLO for provide additional data about Site conditions March 18, 2005 from observation well OB-1. OB-1 is north of MW-10-1R and was collected to VOC analysis using USEPA SW-846 Method 8260B. A groundwater sample was collected on

3.2 RESULTS

results from quarterly groundwater sampling events are presented in this report. documented quarterly to the IDEM in Remediation System Evaluation Reports. Analytical results from the quarterly groundwater sampling of the monitoring well network are Select analytical

3.2.1 Western Source Area

Exploratory I renching

to approximately 4 feet. Below the fill was an intermittent silt loam layer underlain by sand and locations of the test trenches are depicted on Figure 3. The thickness of the fill ranged from nil debris parts mostly consisting of round flexible discs were encountered near the surface. During exploratory trenching activities, fill material consisting of soil and occasional automotive Screening using the PID did not indicate any detectable vapors from the trenches, except for one gravel deposits. No residual source materials were found during the exploratory trenching, is located in the previously identified VOC and Lead soil "hot spot". detection of note in the trench running north-south near SVE-31. The northern end of this trench

Lithology

approximately 8 to 14 feet bgs. Some borings had small sand and clay lenses present. Fill was In general, the Sitc consisted of loamy materials underlain by sands and gravelly sands lithology is available on the boring logs presented in Attachment 1. native sands. The sands were found generally continuous with an occasional silt lens. Groundwater was encountered from approximately 10.5 to 15 feet below ground surface in encountered at the top of some of the borings and ranged from nil to 4-feet in thickness. was overlain by up to nine feet of loamy material. A detailed description of the encountered

Analytical Results

Soil samples collected from the western source area were analyzed for VOCs. All soil analytical for laboratory analysis. The following soil samples exceeded the remedial objective for TCE in results are based on dry weight. Several of the borings had multiple depth intervals submitted

(8-10'), KB-64 (10-10.6'), KB-71 (8-10'), KB-72 (6-7'), KB-77 (6-8'), and KB-77 (10-12'). the western source area: KB-62 (4-6'), KB-62 (8-10'), KB-63 (8-10'), KB-63 (10-12'), KB-64 laboratory analytical reports with associated chain-of-custody documentation are included in The sample results are presented in Table 1 and depicted on Figures 4 and 5. Copies of the

were analyzed for VOCs. Several chlorinated hydrocarbons were detected in the groundwater at Groundwater samples collected from borings KB-52 through KB-55 and KB-60 through KB-65 dichloroethene (1,1-DCE) (KB-62), cis-1,2-DCE (KB-53, KB-54, KB-61, KB-62, and KB-65), each of these locations. monitoring wells located in the vicinity of the area investigated. Figure 6 also depicts various included in Attachment 2. 6. Copies of laboratory analytical reports with associated chain-of-custody documentation are KB-62, KB-63, and KB-65). The sample results are presented in Table 2 and depicted on Figure TCE (KB-52, KB-54, and KB-60 through KB-65), and vinyl chloride (KB-53 through KB-55, historical analytical results from these same on-Site monitoring wells. The chemicals that exceeded the remedial objectives were 1,1-Table 2 also contains historical analytical results from on-Site

3.2.2 Eastern Source Area

Lithology

the first 5-feet of depth. In general, the Site consisted of sandy clays, sandy clay loams, or clay loams for approximately detailed description of the encountered lithology is available on the boring logs presented in Attachment 1. Groundwater was encountered at approximately 10 to 12 feet bgs in native sands. The underlying materials were continuous sands with occasional silt

Analytical Results

respective remedial objectives. The sample results are presented in Table 1 and a copy of the One soil sample was collected from KB-70 at a depth of 9.75 to 10 feet bgs and was analyzed for laboratory analytical report with associated chain-of-custody documentation is Attachment 2. Analytical results are based on dry weight. No analytes were detected above their included in

Groundwater samples were collected from borings KB-66 through KB-70 and observation point OB-1 in the area up-gradient from MW-10-1R. These samples were submitted for VOC

analysis. All samples contained detectable concentrations of TCE. Sample KB-67W (12-16) report along with chain-of-custody documentation is included as Attachment 3. Table 2 also results are presented in Table 2 and depicted on Figure 7. was the only sample to contain a TCE concentration above the remedial objective. The sample are also depicted on Figure 7. contains historical analytical results from MW-10-1R and the sample results from March 2005 A copy of the complete laboratory

3.3 CONCLUSIONS

Western Source Area

63 and KB-64 are relatively near one another in the area of the Northwest Remediation System. collected from six push probe locations above its remedial objective. Two of the locations, KBany new areas of residual source materials. The exploratory trenching and push probe assessments in the western source area did not identify indicate that occurrence of TCE in soil above the remedial objective was not extensive. Borings Southwestern Remediation Systems. Data from locations intermediate to these two areas Borings KB-62 and KB-77 are south of the MW-148 in between the Northwestern and KB-71 and KB-72 are located within the VOC and Lead soil "hot spot." However, TCE was detected in soil samples

concentrations were at concentrations below their respective remedial objectives in MW-148. MW-148. Based on groundwater results before and after the RA, TCE and its daughter products upgradient KB-63 and KB-64 and downgradient KB-65 are located around monitoring well TCE and/or its daughter products were detected in the push probe groundwater samples starting in September 2005 and through December 2006, vinyl chloride concentrations groundwater at MW-148/R were above the remedial objective. Currently, VOC concentrations are below their respective remedial objectives in MW-148R greater than their respective remedial objectives. Three of these borings, However,

as were TCE groundwater concentrations in KB-52 located near MW-153. Groundwater TCE concentrations in MW-153 during the RA were above its remedial objective indicated concentrations of TCE and cis-1,2-DCE below their respective remedial objectives. monitoring at MW-153 following soil assessment activities in December 2004 and March 2005 TCE concentrations in groundwater at MW-153 rose above the remedial objective in June 2005; quarterly groundwater sampling events. concentrations have been below remedial objectives during the past seven Groundwater

depicted on Figure 8. Based on RA and quarterly groundwater sampling results including and Lead soil "hot spot"); and 3) Area 3 around borings KB-63 and KB-64. These areas are objectives were found in soils and groundwater. Impacts were divided into three general areas: No new areas of residual source materials were found, yet VOC impacts above remedial lithology, options to attain remedial objectives were evaluated and the excavation of impacted 1) Area 1 around borings KB-62 and KB-77; 2) Area 2 around borings KB-71 and KB-72 (VOC soils with off-Site disposal was selected along with the continued operation of the Southwestern Remediation System.

Eastern Source Area

below its remedial objective. All but one of the groundwater samples collected from the push source materials. TCE was detected in soil in one push probe location at a concentration well The push probe assessment in the eastern source area did not identify any new areas of residual objective. A sample collected from MW-10-1R around the same time period (March 2005) Sample KB-67W contained a TCE concentration of 400 ug/L versus the 260 ug/L remedial probe borings contained contaminant concentrations below their respective remedial objective. contained an average TCE concentration of 130 ug/L, well below its remedial objective.

groundwater VOC concentrations, for the fifth quarter since the system was shut down, remained quarters of groundwater VOC concentrations below remedial objectives. the Eastern Remediation System was shut down on January 30, 2006, based on four consecutive Based on the results from quarterly groundwater monitoring conducted following RA activities, below remedial objectives. As shown in Table 2,

4.0 SOIL EXCAVATION ACTIVITIES

soil removal, confirmation sampling and results associated with TCE-impacted soil excavation in the western source area was to remove residual TCE-impacted soils. This section describes Section 3.3 of this report, the appropriate remedial option selected to attain remedial objectives Upon review of the data from the RA and quarterly groundwater monitoring events, discussed in network following excavation activities to monitor the western source area. KERAMIDA has also conducted quarterly sampling events of the monitoring well

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4.1 FIELD METHODS

utilities at the Site. Prior to initiation of work, KERAMIDA contacted IUPPS to mark all underground public Site-specific health and safety plan, prior to the commencement of and during field activities. KERAMIDA held daily Site safety meetings, including the review of the

are documented quarterly to the IDEM in Remediation System Evaluation Reports. Field methods used during the quarterly groundwater sampling of the monitoring well network

4.1.1 Soil Waste Characterization Sampling

source area for off-Site disposal. Probing was completed using a Bobcat® characterization samples, WCS-1 through WCS-3, to profile TCE-impacted soils in the western KERAMIDA percussive rig. locations of the samples are depicted on Figure 4. performed probing activities at the Site on June 28, 2006 to collect waste All work was supervised and completed by KERAMIDA personnel. mounted Geoprobe®

divided into three separate excavation areas, Area 1, Area 2 and Area 3 as depicted on Figure 8. Based on investigative results discussed in Section 3.0 of this report, the western source area was sampled were determined using previous investigation results. All soil waste characterization composited to form a waste characterization sample. Boring locations and the soil intervals for laboratory analysis. Continuous soil cores were extracted at 4-foot intervals from each boring to obtain soil samples Therefore, one soil boring was advanced within each area to a maximum depth of 16 feet bgs. samples were submitted to Heritage-CLO for Paint Filter by USEPA SW-846 Method 9095, Hydrocarbons (PNAs) by USEPA SW-846 Method 1311, and TCLP SW-846 Cadmium, Method 376.1, TCLP VOCs by USEPA SW-846 Method 1311, TCLP Polynuclear Aromatic Reactive Cyanide by USEPA SW-846 Method 335.2, Reactive Sulfide by USEPA SW-846 Ignitability by USEPA SW-846 Method 1010, Corrosivity by USEPA SW-846 Method 1110, Chromium, and Lead by USEPA Method 1311 analysis. Soil samples across the impacted interval within each boring were

area of the VOC and Lead soil "hot spot" required disposal as a non-hazardous waste and the Results from the three waste characterization samples indicated that TCE-impacted soils in the results were used to profile the TCE-impacted soils for disposal at the Heritage Environmental TCE-impacted soils in the remaining two areas required disposal as hazardous wastes.

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the laboratory analytical report with associated chain-of-custody documentation is provided in Services, LLC Subtitle "C" landfill (Heritage) facility located in Roachdale, Indiana. Attachment 3. A copy

soils in the expanded areas required disposal as hazardous or non-hazardous waste. Soil waste the collection of waste characterization samples to aid in determining whether TCE-impacted expanded, therefore, several test trenches, TT-3, TT-6, TT-7, TT-8 and TT-9 were excavated for characterization samples were submitted to ENVision Laboratories, Inc. located in Indianapolis, As discussed in Section 4.1.2 below, the initial limits of excavation Area 1, Area 2 and Area 3 Method 1311 and TCLP SW-846 Cadmium, Chromium, and Lead by USEPA Method 1311 Method 1010, Corrosivity by USEPA SW-846 Method 1110, TCLP VOCs by USEPA SW-846 Indiana for Paint Filter by USEPA SW-846 Method 9095, Ignitability by USEPA SW-846 documentation are provided in Attachment 3. Copies of laboratory analytical reports with associated chain-of-custody

excavated. Figures 8 and 9 depict the final excavation limits and areas within those limits that Results were submitted and discussed with Heritage prior to these soils in these areas being were disposed of as hazardous and non-hazardous wastes.

4.1.2 Soil Removal

performed well abandonment activities and Hoosier Equipment Service, Inc. (Hoosier) of October 16, 2006. activities and collected confirmatory soil samples during the period from August 21 through the removal and disposal of TCE-impacted soil, backfilling, compaction and resurfacing KERAMIDA supervised the abandonment of wells, stockpiling of clean overburden materials, compaction and resurfacing activities, all under the direct supervision of Mr. Steve Cobb, Project Indianapolis, Indiana and its subcontractors conducted soil stockpiling, excavation, backfilling, excavated TCE-impacted soils were disposed of at Heritage using trucks supplied by Heritage. Manager, and Mr. Robert Fedorchak, Senior Engineer/Project Manager with KERAMIDA. All A photographic log of the soil removal activities is provided in Attachment 4. Earth Exploration, Inc. (Earth Exploration), of Indianapolis, Indiana

proposed excavation area were abandoned. A total of three, two-inch diameter monitoring wells, Prior to activities in a proposed excavation location, any well or wells located within the MW-132, MW-147A, and MW-148 and seven two-inch SVE wells, SVE-1 through SVE-7 were

removed from the ground and disposed. The well casing was then filled with bentonite to near Resources (IDNR) requirements. The metal protective covers and top portion of well riser were abandoned by a licensed well driller in accordance with Indiana Department of Natural the ground surface. provided in Attachment 5. Well locations are depicted on Figures 8 and 9. Copies of abandonment records are Well abandonment forms for each well were subsequently submitted to the

particular area, clean overburden materials were removed and stockpiled. Following well abandonment activities and prior to the excavation of TCE-impacted soils in a excavated and backfilled in 2000 to remove auto parts and drums and results from soil sampling overburden material removed was based on previous sampling in areas that were previously Two to eight feet of clean overburden materials were removed and stockpiled. The depth of the materials were stockpiled on and covered by visqueen and reused as backfill as detailed below. detailed in Section 3.0 of this report. All excavated

Following the excavation and stockpiling of clean overburden materials in a particular area, activities were directed based on real-time analytical results provided by an on-Site mobile TCE-impacted soils were excavated and direct loaded in landfill provided trucks. Excavation laboratory from soil samples collected during soil excavation as discussed below. Sierra Mobile based on these results and submitted to Heritage-CLO. Labs, Inc. was used as the on-Site laboratory. Confirmatory soil samples were then collected

KB-M, using a Bobcat® During excavation activities, KERAMIDA advanced an additional 13 borings, KB-A through (TT-1 through TT-9). These samples were all collected to aid in determining excavation limits. excavation Area 1, Area 2 and Area 3 expanded. Based on field screening and on-Site mobile laboratory analytical results, the initial limits of All soil samples were field screened using a PID and analyzed by the on-Site mobile laboratory. Soils samples were also collected from excavation sidewalls and test trenches mounted Geoprobe® percussive rig. Boring logs are provided in

Figures 8 and 9. Soil disposal documentation is provided in Attachment 6. with an approximate depth ranging from 12 to 14 feet. hazardous soil were disposed of from an excavation measuring approximately 80 feet by 195 feet A total of 3,670 tons of TCE-impacted hazardous soil and 4,814 tons of TCE-impacted non-The excavation areas are depicted on

addition, miscellaneous southeastern portion of the excavation. The piping appeared to be components of a former excavation near the right-of-way of Holt Road. All these materials were removed and disposed drainage or sewer system. No visible staining or contents were associated with the piping. During removal activities, an underground concrete tile pipe was discovered within the of with the TCE-impacted soils. parts and a drum were found along the western portions of the

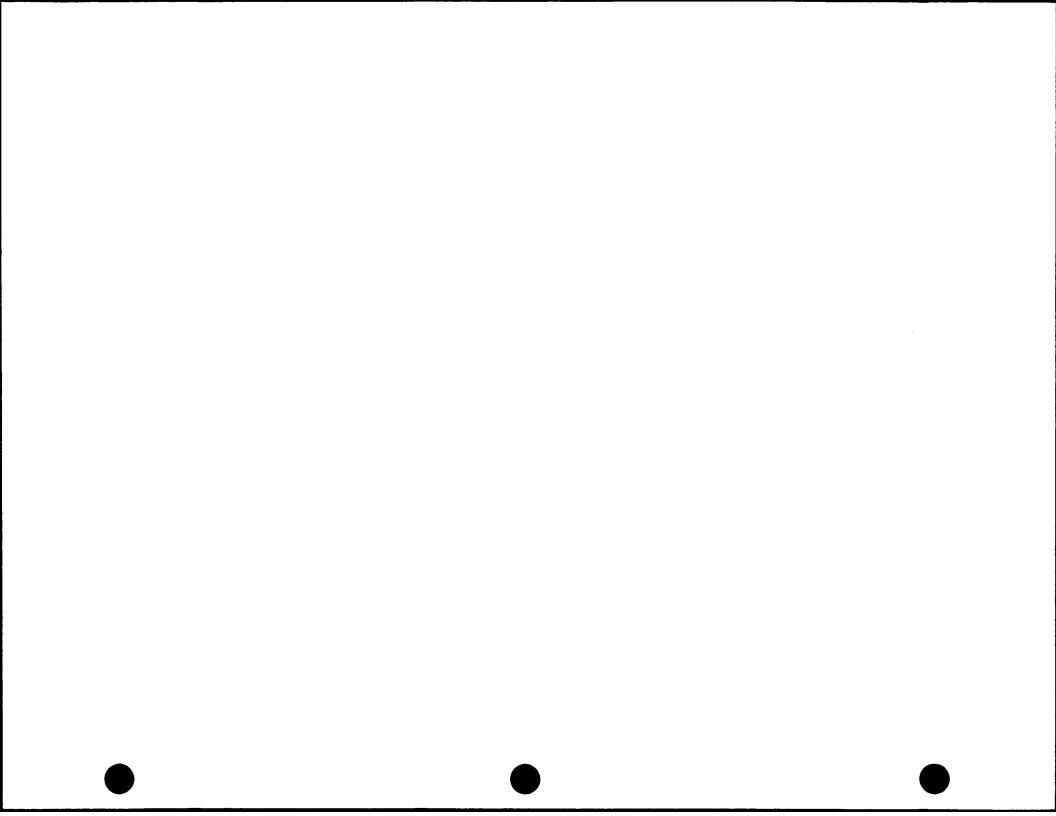
from off-Site. Site surface was restored with topsoil/grass and asphalt as depicted on Figures 8 grade by backfilling with the stockpiles of clean overburden materials and clean fill brought in Following soil removal and confirmatory sampling activities, the excavation was brought to

4.1.3 Confirmatory Soil Sampling

each individual sample collected. Confirmation soil sampling procedures were completed in by KERAMIDA personnel, by hand using disposable nitrile gloves. New gloves were used for removal process. KERAMIDA collected confirmatory soil samples from the excavation throughout the soil samples were submitted to Heritage-CLO for VOC analysis using USEPA SW-846 Method general accordance with the IDEM RISC User's Guide, final dated February 15, 2001. All soil 8260B Confirmatory soil samples were collected directly from the excavator bucket,

laboratory analytical reports with associated chain-of-custody documentation are provided as for analysis. Analytical results are summarized on Table 4 and depicted on Figure 9. Final confirmatory soil sample locations, depths, rationale, and analysis are summarized in Table Attachment 7 Soil samples were submitted through proper chain-of-custody procedures to Heritage-CLO Copies of

assurance and quality control extended into the groundwater, which was located at a range of 10 to 12 feet bgs. No bottom samples were collected from the excavation since the bottom limits of the excavation A total of 29 confirmatory soil samples were collected from the sidewalls of the excavation area. samples and matrix spike and matrix spike duplicates were collected for quality In addition,

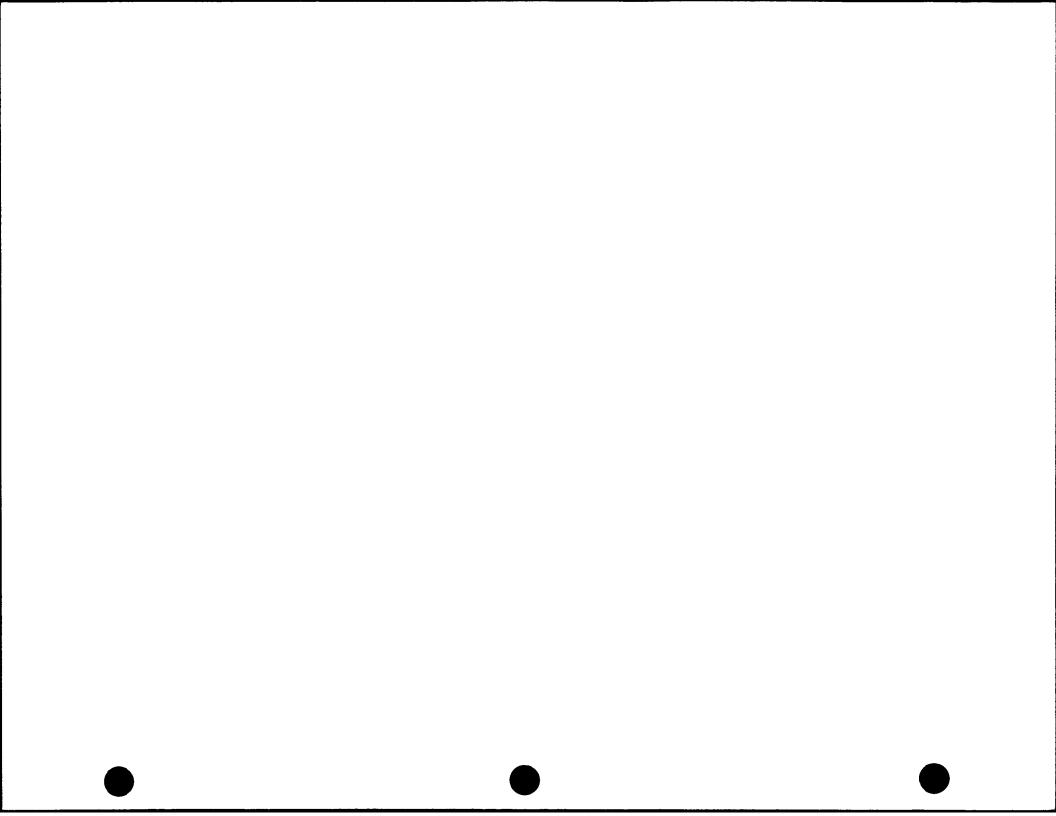


4.1.4 Monitoring Well Installation Methods

excavation activities. The monitoring well locations are depicted on Figures 8 and 9. October 10 and 11, 2006 to replace the monitoring wells previous abandoned prior to soil Earth Exploration installed three monitoring wells, MW-132R, MW-147AR, and MW-148R, on

I.D. manhole) was cemented in place. approximately one-foot below ground surface. Finally, a flush-mounted protective cover (8-inch screen to the bottom of the boring. A bentonite chip seal was placed on top of the sand to Washed #4 quartz sand was placed around the well casing from two foot above the top of the screened from 10.5 to 25.5 bgs. The screen for each well was a machine cut 10-slot screen. from 9.5-19.5 feet bgs, MW-147AR was screened from 20-30 feet bgs, and MW-148R was monitoring wells, MW-132, MW-147A, and MW-148. boring. The monitoring wells were blind drilled and screened to the same depths as the previous Using a 4-1/4 inch hollow-stem auger, a two-inch diameter PVC well casing was installed in the was purged from MW-147AR, and approximately 30 gallons was purged from MW-148R for gallons of groundwater was purged from MW-132R, approximately 35 gallons of groundwater water was containerized in an on-Site storage tank for disposal as documented in Section 6.1.4 of Indiana. Soil cutting disposal documentation is provided in Attachment 6. drums and disposed of at Waste Management, Inc.'s Twin Bridges RDF located in Danville, monitoring well development. All soil cuttings were containerized in DOT approved 55-gallon the Remediation System Evaluation Reports dated December 20, 2006 and February 19, 2007. The wells were developed with a pump, after installation. Approximately 20 The well construction diagrams are included in The casing for MW-132R was screened All development

determine local groundwater flow. Groundwater level measurements were made from the top of each well casing in order to monitoring well was surveyed and tied into the existing Site's monitoring well network. MW-132R, MW-147AR, and MW-148R were installed, the top-of-casing for each



4.2 RESULTS

results from quarterly groundwater sampling events are presented in this report. documented quarterly to the IDEM in Remediation System Evaluation Reports. Analytical results from the quarterly groundwater sampling of the monitoring well network are Select analytical

4.2.1 Confirmatory Soil Sampling

depicted in Figure 9. compounds. Laboratory analytical reports are provided in Attachment 7. Cleanup Goals for VOCs are provided at the bottom of the table for comparison with detected The VOC analytical results for the confirmation soil samples are summarized in Table 4 and are All soil analytical results are based on dry weight. The IDEM VRP Tier II

collected from the soil excavation. The chemical of concern during soil excavation activities, concentration exceeding its remedial objective. The remaining VOC constituents detected in the As shown in Table 4, VOC constituents were detected in 24 of the 29 confirmatory soil samples confirmatory soil samples were detected at concentrations below their remedial objectives TCE, was detected in 23 of the 29 confirmatory soil samples at concentrations below its remedial Vinyl chloride was detected in one confirmatory soil sample (A3-WW-5) at a

4.2.2 Quarterly Groundwater Sampling

in March 2007 indicated that the vinyl chloride concentration is below its remedial objective MW-147AR, MW-153 and MW-302. Vinyl chloride concentrations in groundwater at MWconcentrations continue to be below the remedial objectives in MW-132R, MW-133R, MW-145, following the removal and off-Site disposal of TCE-impacted soils. Three quarterly groundwater sampling events have been conducted in the western source area 148R were above its remedial objective in the first 2 events, however; the third event conducted Groundwater VOC

4.3 CONCLUSIONS

hazardous soil were removed and disposed of off-Site at a Subtitle "C" Landfill. The TCEdetected at a concentration above its remedial objective in one small area. Vinyl chloride was concentrations below remedial objectives. However, one VOC constituent, vinyl chloride, was impacted soil occurrence identified in the western source area has been remediated to A total of 3,670 tons of TCE-impacted hazardous soil and 4,814 tons of TCE-impacted nondetected from soil collected from the sidewall of the excavation at the Holt Road entrance.

to the close proximity of the right-of-way for Holt Road further excavation was not feasible. No further remediation of soil associated with the western source area appears warranted

removal and off-Site disposal of TCE-impacted soils have indicated that groundwater VOC Quarterly groundwater sampling events conducted in the western source area following the concentrations are below remedial objectives.

5.0 USE OF REPORT

conveyed to any other party, or used by or relied upon by any other party, without the prior and recommendations contained herein shall not, in whole or in part, be disseminated or whom the Client wishes to make this report available. This report and the findings, conclusions This report has been prepared for the exclusive use of the Client and persons or organizations to written consent of KERAMIDA.

6.0 LIMITATIONS

remediation services. KERAMIDA's professional opinions contained herein are based upon the This report was prepared in accordance with KERAMIDA contractual guidelines set forth for the operation of the remediation system. No other warranty is given or implied by this report. operation, maintenance, and monitoring/sampling conducted by KERAMIDA personnel during

Table 3
Final Confirmatory Sampling and Analysis Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP # 6991004
KERAMIDA Project No. 2829E

Sample -	Confirmation Sample Sidewall	11	Excavator Bucket	Southeast Portion-South Sidewall of Area 3 (bottom sample)	A3-SW-2
Confirmation Sample - Sidewall		5	Excavator Bucket	Southeast Portion-South Sidewall of Arca 3 (top sample)	A3-SW-1
Confirmation Sample - Sidewall	l .	11	Excavator Bucket	Southern Portion-East Sidewall of Area 3 (bottom sample)	A3-EW-4
Confirmation Sample - Sidewall		5	Excavator Bucket	Southern Portion-East Sidewall of Area 3 (top sample)	A3-EW-3
Confirmation Sample - Sidewall		11	Excavator Bucket	Northern Portion-East Sidewall of Area 3 (bottom sample)	A3-EW-2
Confirmation Sample - Sidewall		5	Excavator Bucket	Northern Portion-East Sidewall of Area 3 (top sample)	A3-EW-1
Confirmation Sample - Sidewall		11	Excavator Bucket	Eastern Portion-North Sidewall of Area 3 (bottom sample)	A3-NW-4
Confirmation Sample - Sidewall		5	Excavator Bucket	Eastern Portion-North Sidewall of Area 3 (top sample)	A3-NW-3
Confirmation Sample - Sidewall		10	Excavator Bucket	Western Portion-North sidewall of Area 3 (bottom sample)	A3-NW-2
Confirmation Sample - Sidewall		v	Excavator Bucket	Western Portion-North sidewall of Area 3 (top sample)	A3-NW-1
Confirmation Sample - Sidewall		10	Excavator Bucket	Duplicate of A3-WW-5	A3-WW-5 DUP
Confirmation Sample - Sidewall		10	Excavator Bucket	Northern Portion-West sidewall of Area 3 (bottom sample)	A3-WW-5
Confirmation Sample - Sidewall		5	Excavator Bucket	Northern Portion-West sidewall of Area 3 (top sample)	A3-WW-4
Confirmation Sample - Sidewall	0	1	Excavator Bucket	Southern Portion-West sidewall of Area 3 (bottom sample)	A3-WW-3 (10')
Confirmation Sample - Sidewall	11		Excavator Bucket	Southern Portion-West sidewall of Area 3 (bottom sample)	A3-WW-2 (11')
Confirmation Sample - Sidewall	5		Excavator Bucket	Southern Portion-West sidewall of Area 3 (top sample)	A3-WW-1 (5')
Confirmation Sample - Sidewall	11		Excavator Bucket	East Sidewall Between Area 1 & Area 3 (bottom sample)	A1/A3 East Wall-2
Sidewall	5		Excavator Bucket	East Sidewall Between Area 1 & Area 3 (top sample)	A1/A3 East Wall-1
10 Confirmation Sample - Sidewall	0	1	Excavator Bucket	Northern Portion - East Sidewall of Area 1 (bottom sample)	KS-11
Sidewall	5		Excavator Bucket	Northern Portion - East Sidewall of Area 1 (top sample)	KS-10
Confir	0	10	Excavator Bucket	Southern Portion - East Sidewall of Area 1 (bottom sample)	KS-9
Confir	5	5	Excavator Bucket	Southern Portion - East Sidewall of Area 1 (top sample)	KS-8
Confirmation Sample - Sidewall	10		Excavator Bucket	West Sidewall of Area 1 (bottom sample)	KS-4
Confirmation Sample - Sidewall		5	Excavator Bucket	West Sidewall of Area 1 (top sample)	KS-3
Confirmation Sample - Sidewall	°		Excavator Bucket	South Sidewall of Area 1 (bottom sample)	KS-2
Confirmation Sample - Sidewall		5	Excavator Bucket	South Sidewall of Area 1 (top sample)	KS-1
 	ıple h (ft)	Sample Depth (ft)	Method	Sample Location	Sample Identification
		1			

Final Confirmatory Sampling and Analysis Summary Allison Gas Turbine Division, Plant 10 Former General Motors Corporation **KERAMIDA Project No. 2829E IDEM VRP # 6991004** Indianapolis, Indiana Table 3

			Sample		
Sample Identification	Sample Location	Method	Depth (ft)	Depth (ft) Sampling Rationale Lab Testin	Lab Testing
	South Sidewall of Area 2 (top sample)	Excavator	λ	Confirmation Sample -	VOC
A2-5W-1 (b)	South Sittewall of Area z (top sample)	Bucket	O	Sidewall	ξ
4117 C MS CV	South Sidewall of Area 2 (bottom	Excavator	1	Confirmation Sample -	VO.
A2-3W-2 (11)	sample)	Bucket	11	Sidewall	ć
A2 WW 1 (A)	West Sidewall of Area 2 (top sample)	Excavator	^	Confirmation Sample -	VOC
A2-W W-1 (4)	west sidewan of Area z (top sample)	Bucket	4	Sidewall	600
CONTRACT	West Sidewall of Area 2 (bottom	Excavator	0	Confirmation Sample -	VOC
AZ-W W-Z (9)	sample)	Bucket	7	Sidewall	•

ft = Feet

KS = KERAMIDA Sample

(Dup) = Duplicate Sample

VOC = Volatile Organic Compounds; U.S. EPA SW 846 Method 8260B
NA = Not Applicable
QA/QC = Quality Assurrance/Quality Control

Tuete I VOCs in Subserface Soft (mg/kg) Former General Motors Corporation Allion Con Tarking Division, Pheri 10 Indianapolis, Indiana IDEM Vist 2009;2004 KERAMIDA Project No. 28280

The control	Sample No.	Date Snegket	Sharph Hughl (feet)	Lath Sample No.		me they measure.	Carine similar	L. Dietamentolom	do-13-Dishipperhyles	Anne 13-Thithernthee	1	-	- parameter	Japanahu	and Propriessors	Total Microsoft plans	Taken	Transmentation	L2.4-Tribuilighimm	OATHeritale	Annual Street	Aybeen, Total	All Other VOCs
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Column C			-		10.770		4.316	14.19							-	SHEET.		-			-0.0800	100	ND
Column C	606 (0.10)	617/0004		4471396	167	1	0.63	Sept.	10	447	EC-LT.	1-43		141		< 4.7.	447	047111			127	1	760
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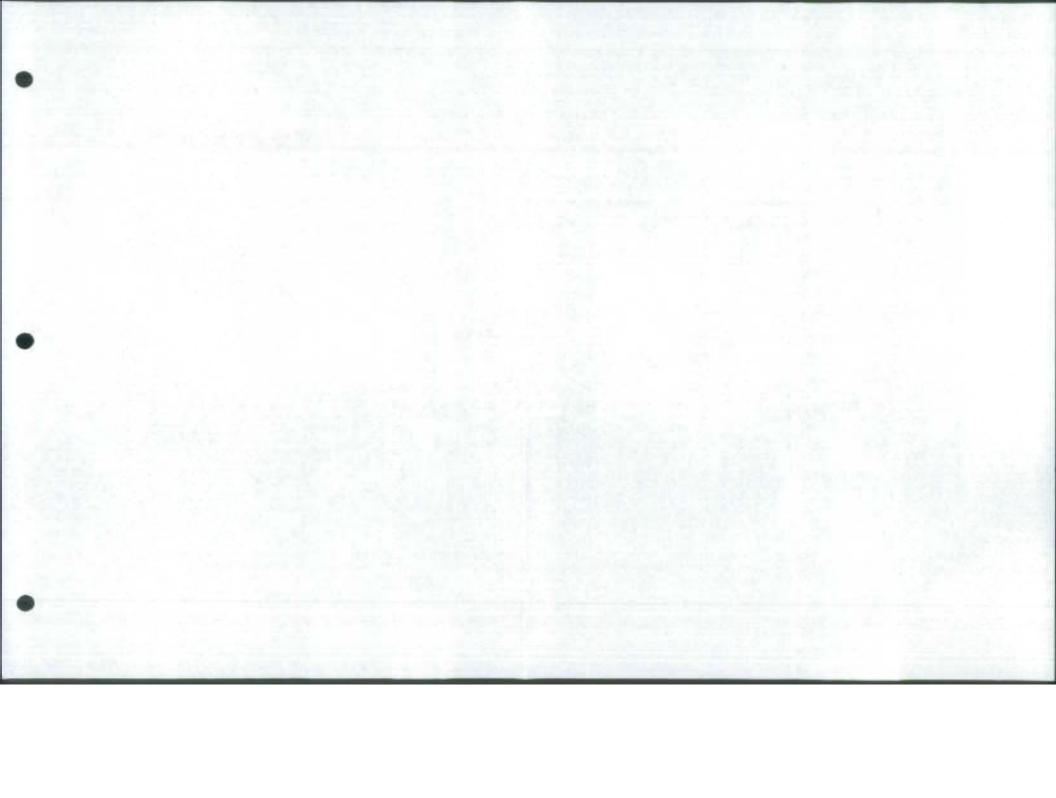
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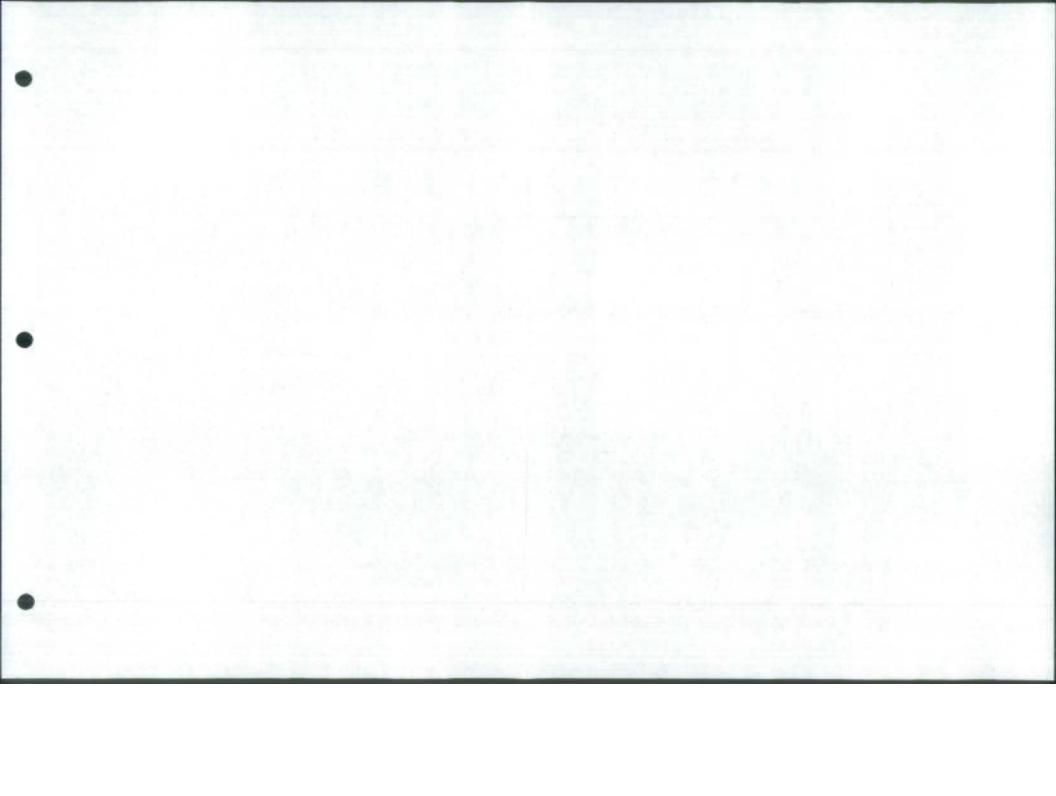
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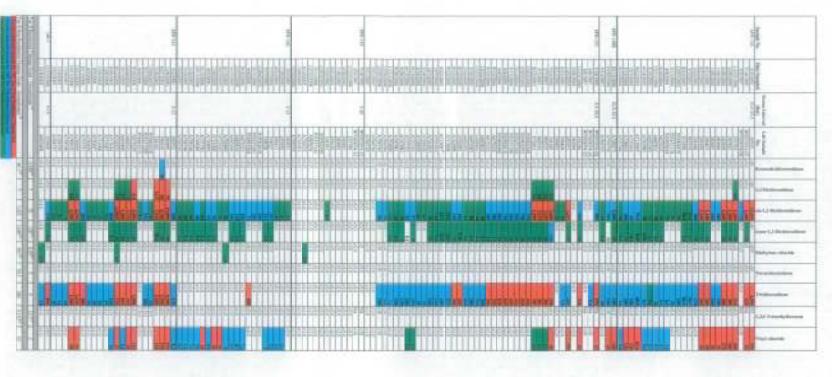
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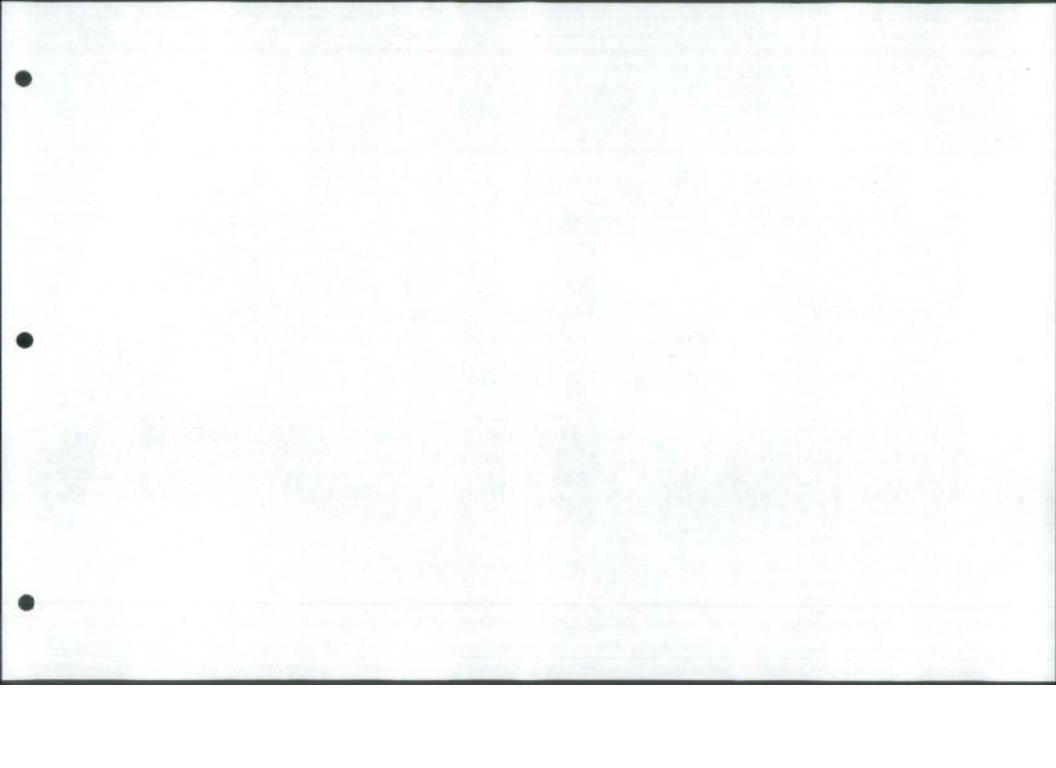
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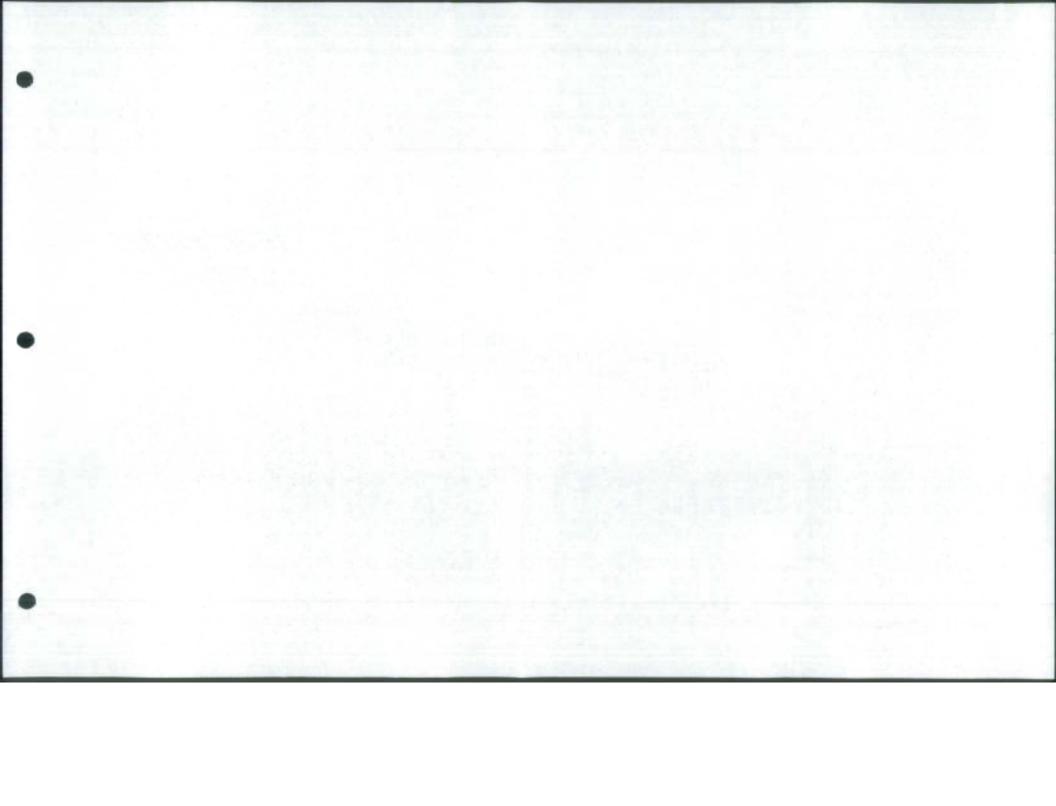


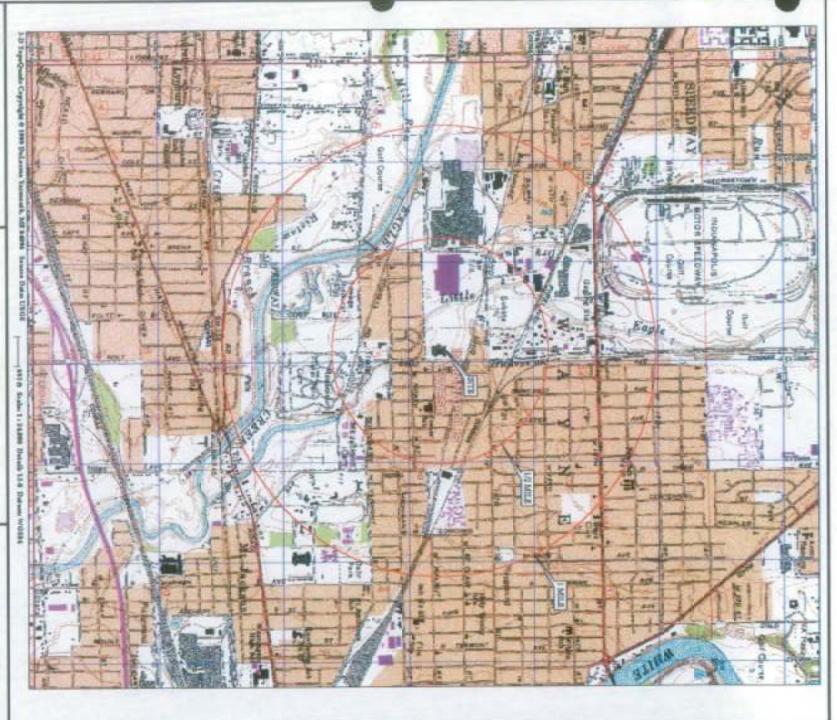


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Albert	BETCHE		AUGUSCO.	11	1000	16.0001		10.00	-0.0104	40.8914	100		49.0004	1000		Section.	-0.0004		48,800	0.011		1,0014	0.000	1000	14000	- 10
ALSO I	\$300m.		434700	_1_	1605	SERCH.	SUBDIE	PERMIT	48,0034		-0.000	100000	-0.001	HORDS:	-5.80x	-con-	-0.0004		45.000	-0.000	or dive	4,0054	-0.00%	-0.000	240,000	16
A5-506-4	10270804		33700	41.	400	56,9354	****	100 HH	56,0254		10004	200,000	HEET	ESTREE	10.601	1000	11000	10.0001	0.001	AAAKH:		ALTERNATION CO.	10-000	487971	345801	76
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A 25	107099		43490		16/65	DESCRIPTION OF THE PERSON OF T	10,3004	NAME	MEDIAN	0.801	-411116	wit(800)	A LEGS	HEARTS.	480	SALASS.	-1100		-0.401	0.901		white the	-0.000		141.011	76
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AC-79-1	1000000 1000000		-550	-5-	NEOG.	SERVICE .	10 BOH	10.80	483798	10368			KE1009W	SOTE -	SERVE.	300mx	-1000	ok 90%	0.00EE	U.B.I.E.		-0.000	-0.00%	-0.000	100,000	- 15
				- 0	LE COL		HOURS	NO SET	148,033	-981	1111	-	-8.000	15/00/1-	950-	10,000	HEARING.	351-	(3.87)	0.801	-	MARKS	+0.0020	-	- CHEST	-3
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								and the same of th	15.00	0.00		1000	-			\$010jp-				THE REAL PROPERTY.					Annual Property lies	-7
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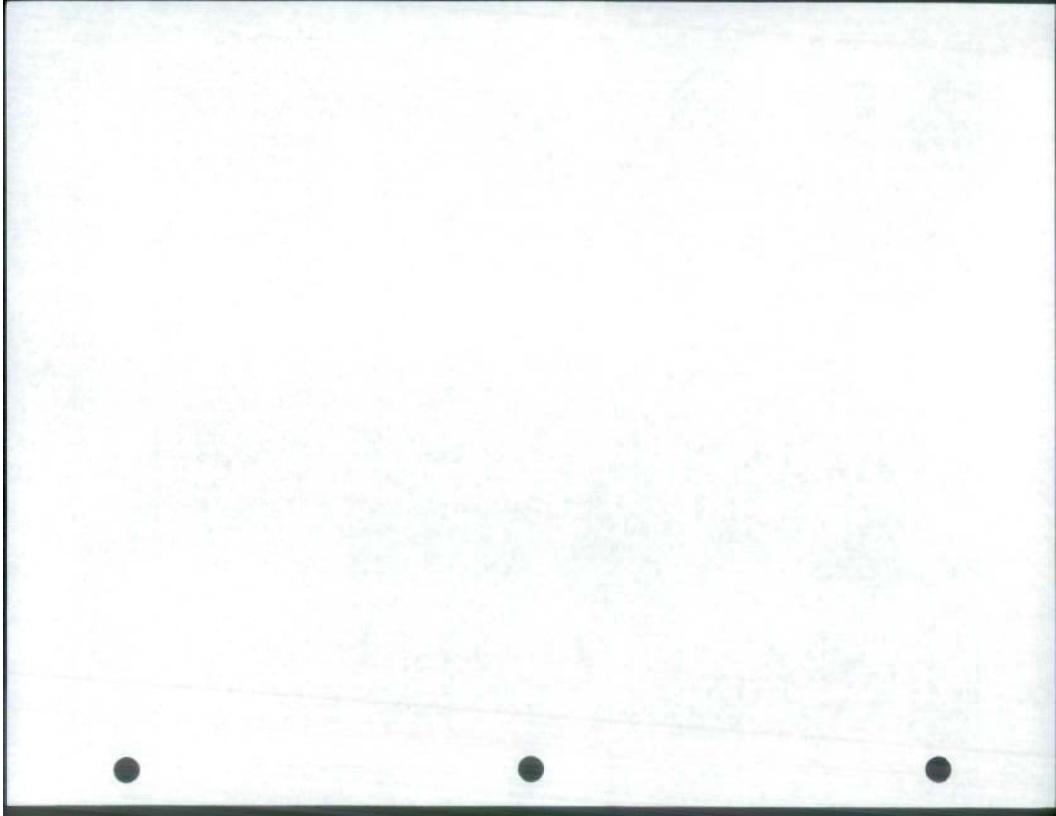
(317) 685-6600 FAX (317) 685-8610

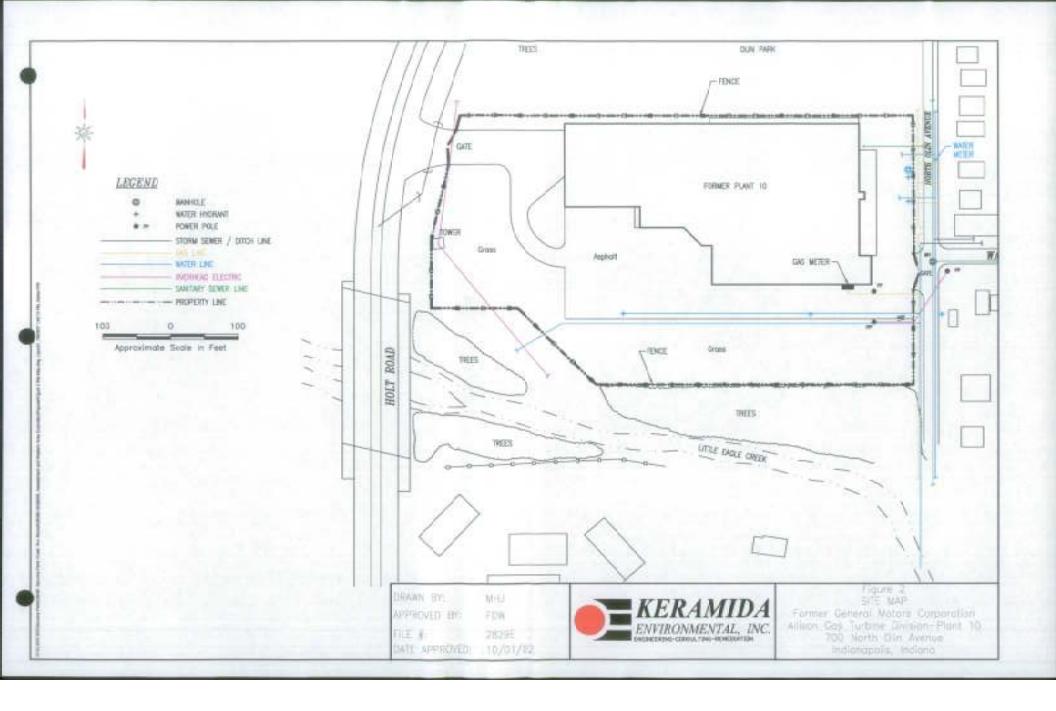


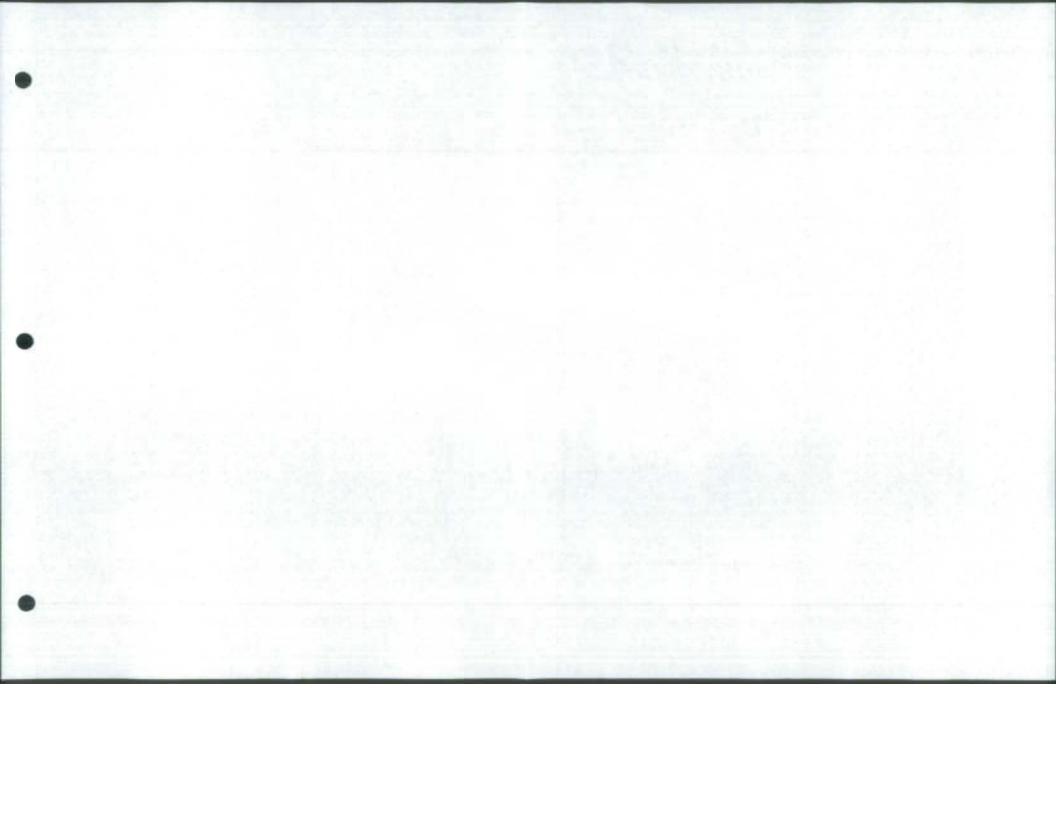
Figure 1
Site Location Map
Former General Motors Corporation
Allison Gas Turbine Plant 10
700 North Olin Avenue
Indianapolls, IN

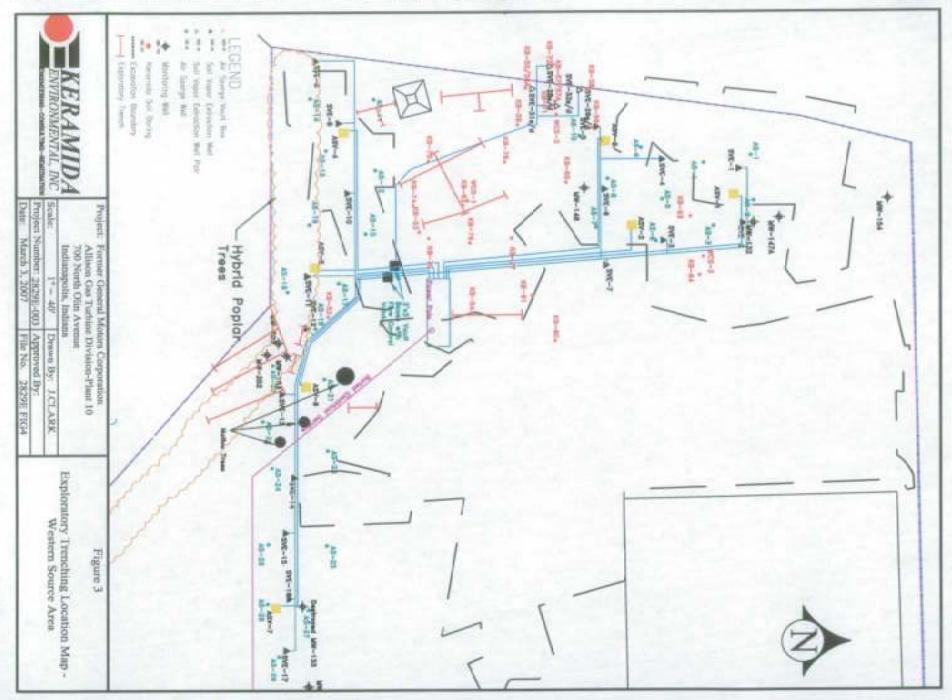
Becky Consinelli K/fa Buckles 9/29/2007 2829E

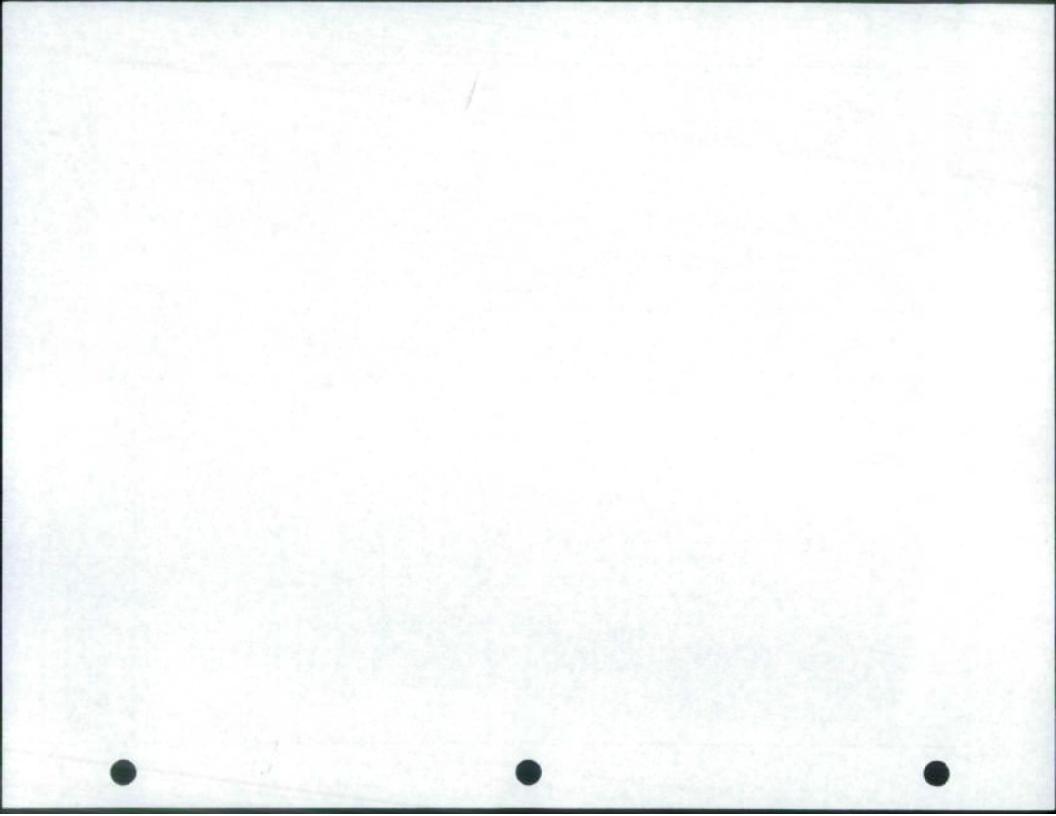
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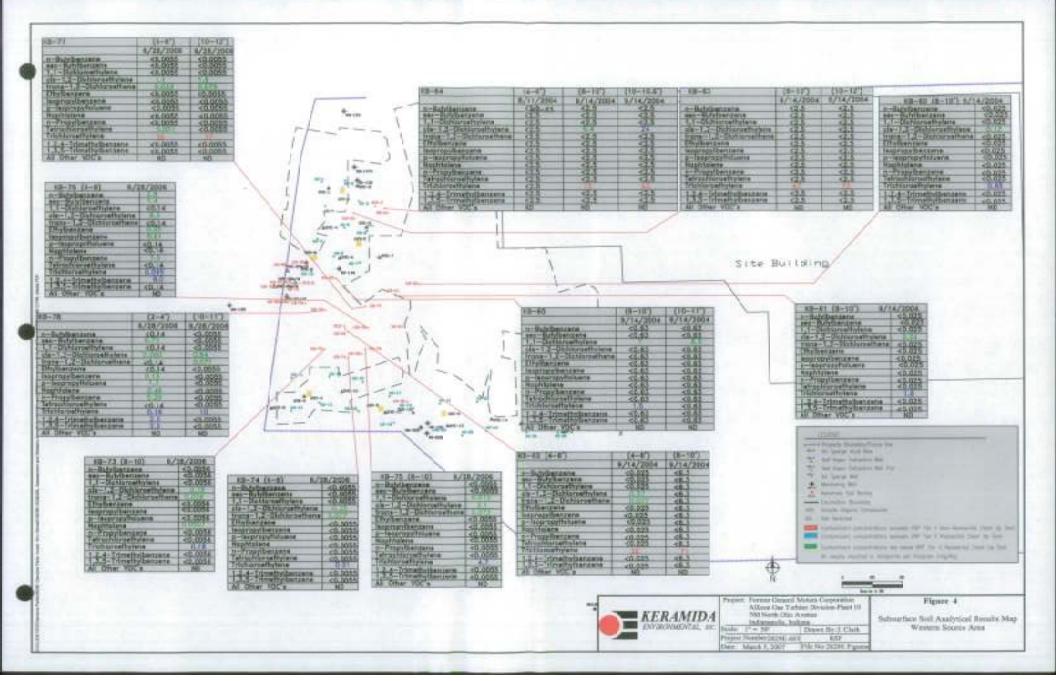


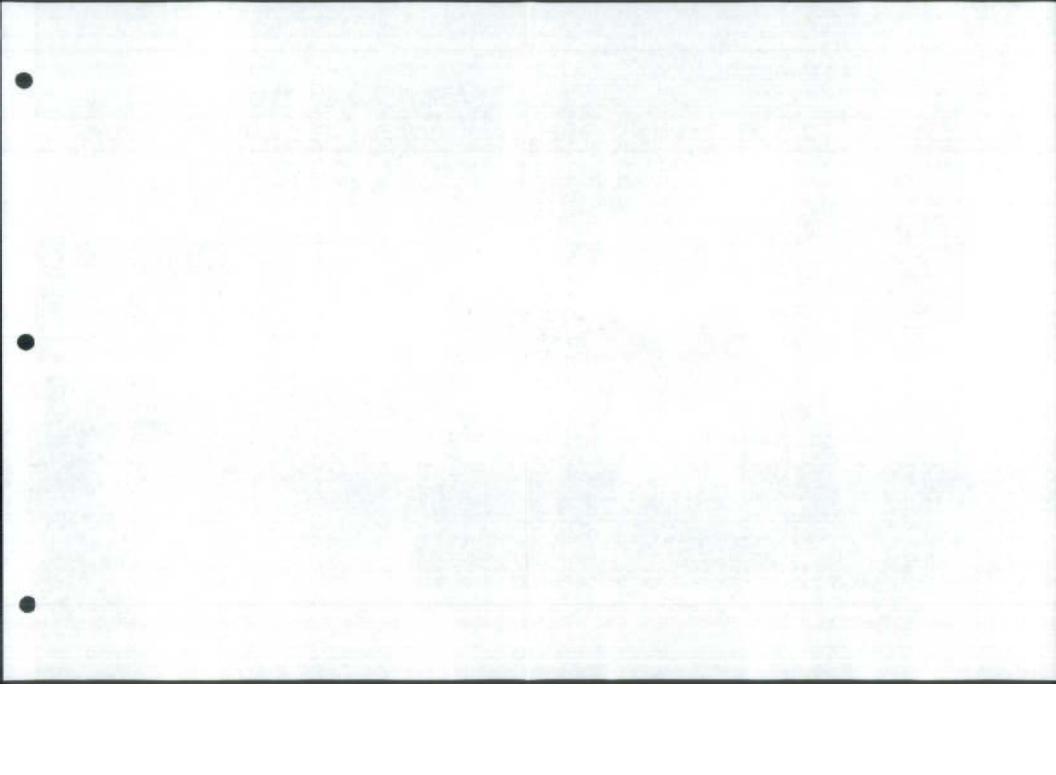


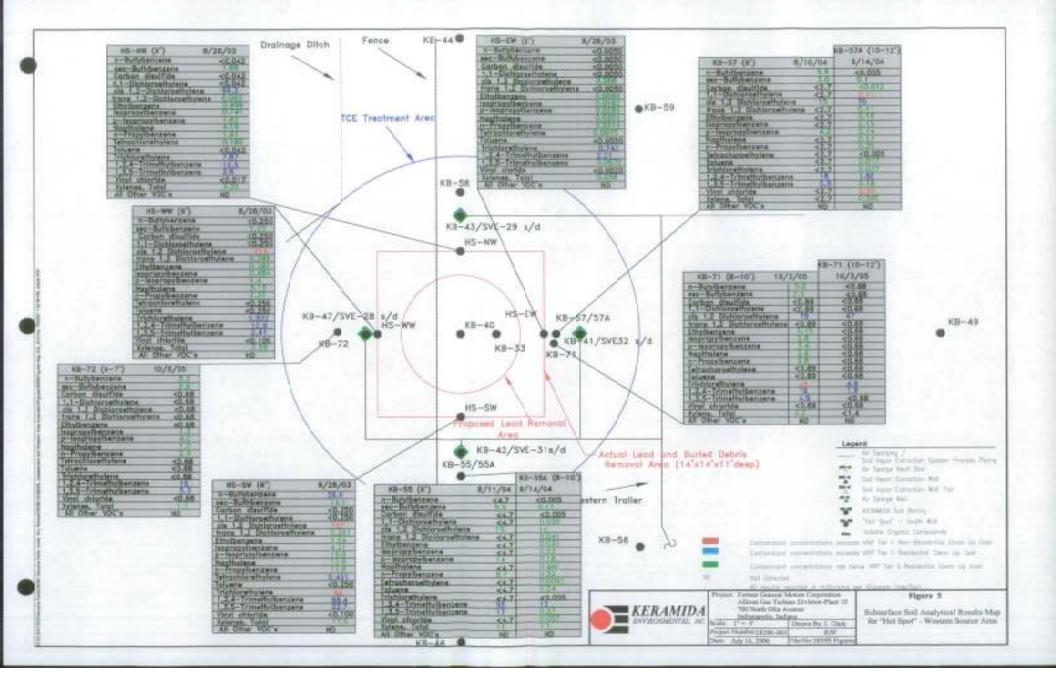


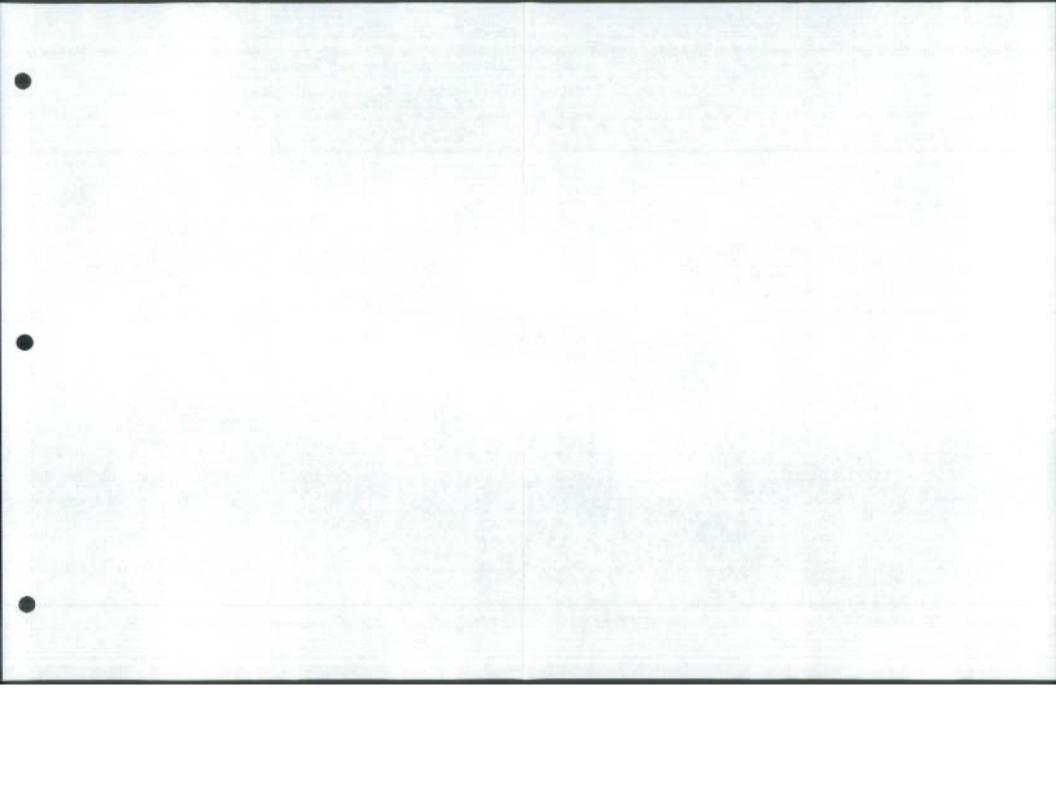


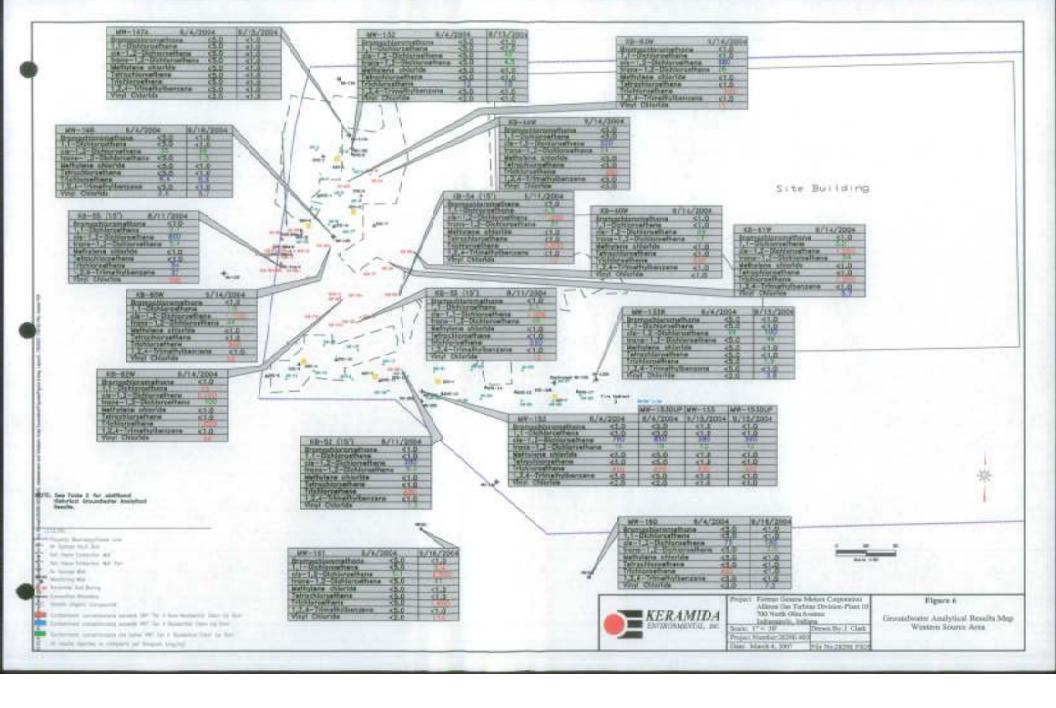


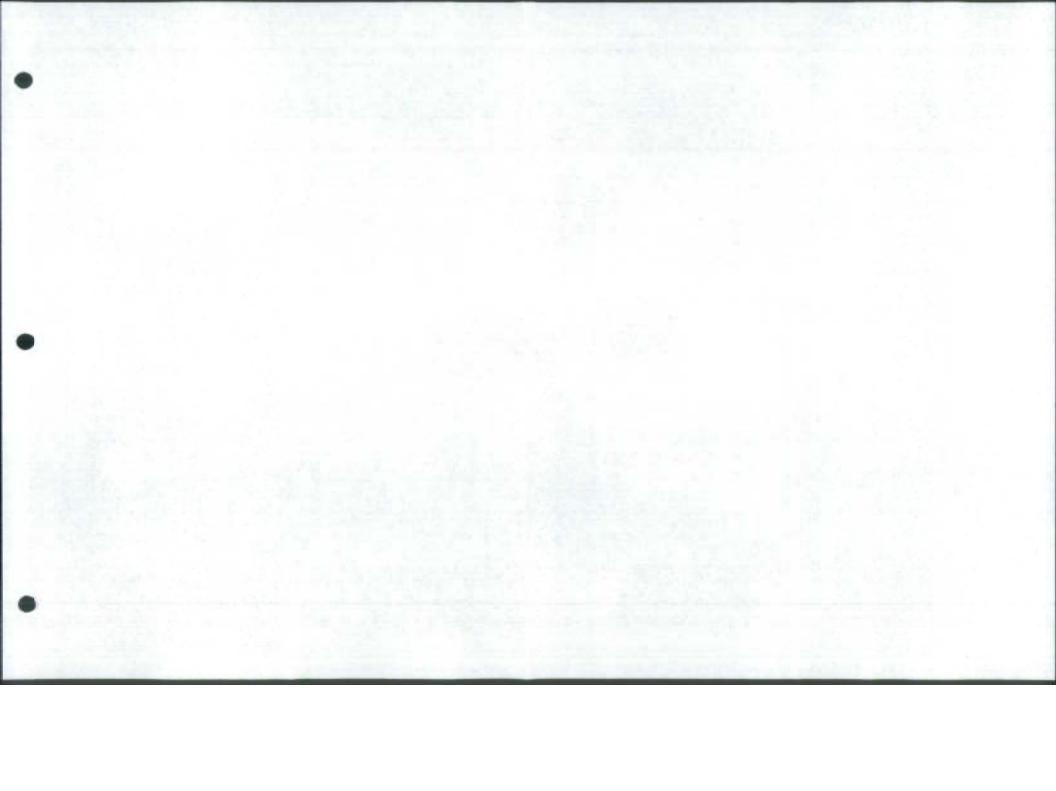


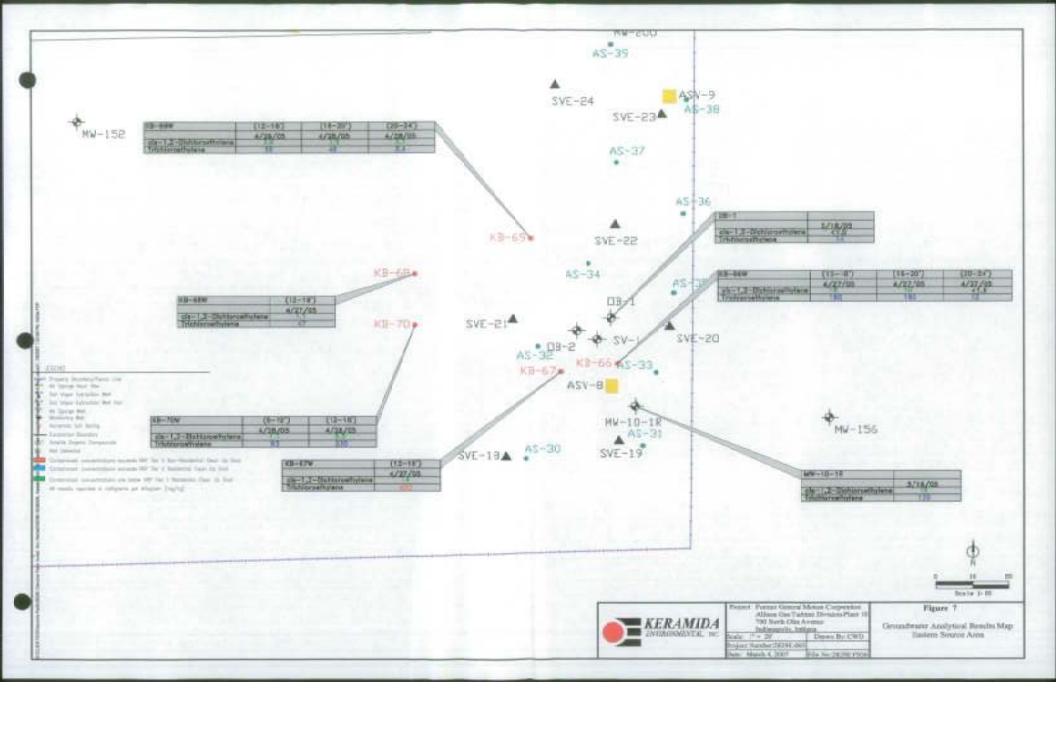


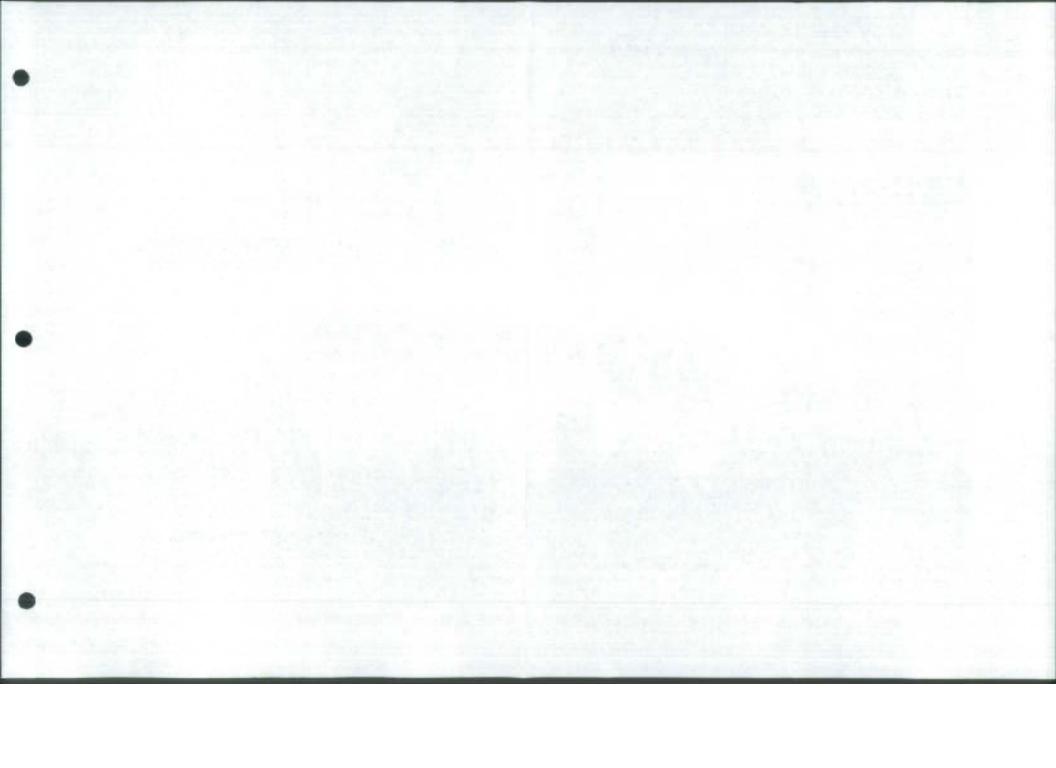












NUIN-1\2829EG-1.	THR\FIGURE~1\SO	ILBO-1\SO LBO	11KB-52.BOR							,			
66 F		6		» с) . 	A	N .	0	Depth in		٠		Ā
	*	2 2 3 2 2				4 4 4	- 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1		GRAPHIC	쥬	_		≨
SAND w/small pebbles Fine SAND, wet								Brown TOPSOIL w/pea gravel (10	· DESCR	NAMIDA Project No. 2829E	Benuine Parts Company 700 North Olin Avenue Indianapolis, Indiana		KERAMIDA Environmental, Inc.
			R 4/1)		DAM (10YR 4/1)			YR 4/3)	IPTION				
										ason Condry El	829E '10/04 eoprobe		FOG
4		ω		r)		<u> </u>		Samples				<u>Q</u>
3. 4		2.0		ç	,		3.0		Rec				- B0F
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		Ppm .		Genera		LOG OF BORING KB-52
4									Water Levels	1 .	Loca		β̈
Groundwater sample collected for analysis (12'-16')									REMARKS		tion : 25' NW of MW-153	(Page 1 of 1)	52
	SAND w/small pebbles Fine SAND, wet 0.0	12————————————————————————————————————	10————————————————————————————————————	Clay LOAM w/ small pebbles (10YR 4/1) 10 10 2 3 2.0 0.0 12 2 3 2.0 0.0 14 3.4 0.0 Fine SAND, wet 0.0	Clay LOAM w/ small pebbles (10YR 4/1) Clay LOAM w/ small pebbles (10YR 4/1) 3 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Pea gravel to sand to Silty Clay LOAM (10YR 4/1) 6	γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ	2	Brown TOPSOIL w/pea gravel (10YR 4/3)	Depum C In GRA DESCRIPTION Brown TOPSOIL w/pea gravel (10YR 4/3) T T T T T T T T T T T T T T T T T T T	Depth H DESCRIPTION Diffing Co. H DESCRIPTION DESCRIPTION	Canuline Parts Company Project ID 2003E 2003E	Genurine Parts Company TOR North Oils Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E KERAMIDA Project No. 2829E Brown TOPSOIL w/pse gravel (10YR 4/3) O T T T T T T T T T T T T T T T T T T

	NUIN-1\2829EG-1.Th			VKB-53.BOR					- D		
8 3	,		ئىرىيىيى بىلىپىلىي	*************************************	20 . 07 		Videtaletaleta	<u> </u>			KER
	9: 90: 90: 90: 90: 90: 90: 90: 90: 90: 9	SAND AND GRAVEL	Silty CLAY, grey (10YR 3/1)	1" gravel seam	Clay LOAM (10YR 4/2)		(10YR 4/2)	Silty Clay LOAM/Topsoil (10YR 4/3)	GRAPHIC	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
			R 3/1)					oil (10YR 4/3)	DESCRIPTION	Project ID Date Drilled Drilling Method Geologist Drilling Co.	ital, Inc.
	4		ω		·				Samples	: 2829E : 8/11/04 : Geoprobe : Jason Condry : KEI	LOG
	4.0	1	4.0		4.0			3.6	Rec	_)F B(
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Ppm	General	LOG OF BORING KB-53
	Groundwater sample collected for analysis (12-16)								Water Levels REMARKS	General Location : 80' NW of MW-153	(B-53 (Page 1 of 1)

06-15-2005 J:\CLIENT~1\G\GE		RE~1\SOILBO~1\SOILBO~1\KB-54.BOF			1		
20 78	.	, 10	о о . Патаната	, , , , , , , , , , , , , , , , , , ,	Depth in		益
	0000			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	GRAPHIC	쥐	\$
	Fine SAND (10YR 3/1) SAND AND GRAVEL, wet	SAND AND CLAY mix (10YR 3/1) Clay LOAM w/sand and gravel w/sand (10YR 4/3)		TOPSOI∪gravel mix (10YR 4/3)	DESCR	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
					DESCRIPTION	Project ID : 2829E Date Drilled : 8/10/04 Drilling Method : Geoprobe Geologist : Jason Condry Drilling Co. : KEI	۲0
						e andry	G.
	4	ω	N		Samples		유
	4.0	4.0	. . 	ω N	Rec		ВОГ
	0.0	0.0	0.0	0.0	FID ppm	General Location	LOG OF BORING KB-54
	4				Water Levels	Loca	₩ P
	Groundwater sample collected for analysis (12-16)				REMARKS	ation : 10' N of SW/NW : system trailer	.54 (Page 1 of 1)

1 8 1 6																
	.	4	. 12		. io				ര		1	, N		Depth feet		Ā
														GRAPHIC		RAN
	wet	Silty CLAY (10YR 3/1) SAND AND GRAVEL	Silty Clay LOAM (10YR 4/3)	SAND mix (10YR 3/1)			CLAY stiff (10YR 3/1)	(10YR 3/1)	1' sand and gravel seam	(10YR 4/3)	0.5' sand mix seam			DESCR	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
													3)	RIPTION	Project ID Date Drilled Drilling Method Geologist Drilling Co.	
															: 2829E : 8/11/04 : Geòprobe : Jason Condry : KEI	LOG OF BORING KB-55
		4			-ω				N					<u> </u>		유
		3.6			3.2				3.4			3. 4		Rec	<u> </u>	BOF
	46.2	296. 3		498.7	•	742.5		236.7		34.5	0.0		0.0	FID	Genera	RING
	1													Water Levels	Loca	P
	Groundwater sample collected for analysis (12'-16')							for analysis (6')	Soil sample collected				·	REMARKS	tion : 2' S of SVE 31 s/d	55 (Page 1 of 1)
		46.2	4 3.6 46.2	4 3.6 296.3 46.2	498.7	3 3.2 498.7 4 3.6 296.3	3 3.2 742.5 498.7 4 3.6 296.3	3 3.2 742.5 4 3.6 296.3 46.2	3 3.2 742.5 4 3.6 296.3 46.2	2 3.4 236.7 3 3.2 742.5 4 3.6 296.3	3 34.5 2 3.4 236.7 236.7 742.5 4 3.6 4 3.6 4 6.2	34.5 2 3.4 236.7 236.7 742.5 4 3.6 4 3.6 406.2	1 3.4 0.0 0.0 34.5 34.5 34.5 742.5 3.6 742.5 498.7 498.7 46.2 46.2 46.2	YR 4/3) 1 3.4 0.0 0.0 0.0 2 3.4 236.7 2 3.4 236.7 4 3.6 46.2 4 46.2 4 46.2 4 46.2 4 46.2 4 48.7	SCRIPTION Samples Feet ppm 3 3.2 236.7 Water Levels Water Levels	Project ID

3 16 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•	4	<u> </u>	0	GRAPHIC	KE	KERAN
	SAND (fine), very gravelly (fine), moist, loose, yellowish brown (10 YR 5/6); w/ silt loam, moist, firm, dark gray (2.5 Y 4/0), slightly gravelly (fine), moist, firm, dark gray (2.5 Y 4/0), solvent odor present				Blind Drilled (0-8')	DESCR	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
	noist, loose, yellowish noist, firm, dark gray), moist, firm, dark gray					DESCRIPTION	Project ID : 2829E Date Drilled : 9/14/04 Drilling Method : Geoprobe Geologist : SRC Drilling Co. : KEI	ГО
	3	N			_	Samples		G O
	N	. 🔀			₹	Rec		BOF
	989.1	N	₹ .	¥	₹	FID	Gene	LOG OF BORING KB-55a
						Water Levels	General Location	A P
	Soil sample collected for lab analysis (8-10')					REMARKS	ation : 0.5' south of KB-55.	55a (Page 1 of 1)

.05-15-	-2005 J:\CLIENT~1\G\GE	NUIN-1\2829EG~1. 1HR\F	IGURE~1\SOILBO~1\SOILBO~1\KB	-56.BUR	···		1		
20-1			72 70	&	o 4.	, , , , , , , , , , , , , , , , , , ,	Depth feet		盃
	-	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0202020		-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	GRAPHIC	쥬	A A
		SIIty CLAY SAND AND GRAVEL wet	CLAY, grey (10YR 3/1-3/2) SAND AND GRAVEL			TOPSOIL w/clay tile debris (10YR 4/3)	DESCRIPTION	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
		-	-			4/3)	IPTION .	Project ID : 2829 Date Drilled : 8/10) Drilling Method : Geologist : Jaso Drilling Co. : KEI	
							Complex	2829E : 8/10/04 : Geoprobe : Jason Condry	LOG OF BORING KB-56
		4	ω		N	-	Samples		유
		. 4.0	4.0		<u>မ</u> တ	3.2	Rec		BOA
:		55.6	240.6	0.0	0.0	0.0	ppm FID	General Location	NG
-		4					Water Levels	l Loca	φ l
						·	REMARKS	ation : 15' E, 8' S of SVE 31 s/d	-56 (Page 1 of 1)

06-15-2005 J:\CLIENT~1\G\C	ENUIN~1\2829EG~1.THR\FIGURE~	-1\SOILBO~1\SOILBO~1\KB-57.BOR				, '	
20 78				» 0	Depth in		<u>ā</u>
	20000000000000000000000000000000000000			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	GRAPHIC	至	\$
	SAND AND GRAVEL, wet		Silly Clay LOAM (10YR 4/3)	TOPSOIL, brown (10YR 4/3)	DESCRIPTION	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
			·		IPTION	Project ID Date Drilled Drilling Method Geologist Drilling Co.	
					Samula.	: 2829E : 8/10/04 : Geoprobe : Jason Condry : KEI	LOG OF BORING KB-57
	4	ω	N	-	Samples	•	유
	3.0	4.0		4.0	Rec		BOR
,	400-500	63.5 343-650	11.6	0.0	Ppm Ppm	General Location	ING H
	◀				Water Levels	Loca	Ğ₽-
			Soil sample collected for analysis (6')		REMARKS	tton : 2' W of SVE 32 s/d	.57 (Page 1 of 1)

06-15-2005 J:\CLIENT~1\G\GENUIN~1\2829EG~1.THR\FIG\	URE~1\SOILBO~1\SOILBO~1\KB-5			1	, , , , , , , , , , , , , , , , , , , 	
20 16	75	· · · · · · · · · · · · · · · · · · ·	4 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Depth feet	.	盈
ì				GRAPHIC] 줘	₹
	SILT LOAM, slightly gravelly (fine), moist to wet (non-satiated), dark gray (2.5 Y4/0) SAND slightly gravelly (fine), wet, olive gray (5 Y 4/2), black staining and solvent odor present SAND (fine), extremely gravelly (fine), moist, loose, olive gray (5 Y 4/2)		Blind Drilled (0-10')	DESCRIPTION	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
	moist to wet) olive gray (5 Y 4/2), sent ne), moist, loose, olive			IPTION	Project ID : 2829E Date Drilled : 9/14/04 Drilling Method : Geoprobe Geologist : SRC Drilling Co. : KEI	LOG
	ω 4	N	_	Samples		유
	2 3	\$	₹	Rec	•	LOG OF BORING
	641 NA	N N	\$ \$	PID	General Location	NG K
	·		·	Water Levels		βĐ
	Soil sample collected for lab analysis (10-12)			REMARKS	ation : 0.5' west of KB-57	KB-57a (Page 1 of 1)

06-15-2005 20 20 20 20 20 20 20 20 20 20 20 20 20	J:\CLIENT~1\G\G			10-	œ	σ			٥	Depth in feet		<u></u>
		* * * * * *	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2 2 3 3 3 3	20202020		000000000000000000000000000000000000000		7 7 7 7	GRAPHIC		RAN
		as above, w/sand, wet	SAND AND GRAVEL Clay LOAM (10YR 3/1)		SAND AND GRAVEL Clay LOAM, grey (10YR 3/1-3/2)	SIITY CLAY	SAND AND GRAVEL (10YR 4/3)	Sifty Clay LOAM w/gravel	TOPSOIL (10YR 4/3)	DESCI	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
										DESCRIPTION	Project ID Date Drilled Drilling Method Geologist Drilling Co.	
				·							: 2829E : 8/10/04 : Geoprobe : Jason Condry : KEI	LOG
			4	ω)	•		Samples		유
			4.0	3.0		3.2		č N	•	Rec		BO
		0.0	22.5	210.0	148.0	50	18.3	0.0	0.0	FID	General Location	LOG OF BORING KB-58
		4								Water Levels	Locati	(B-6
									·	REMARKS	ion : 2' N of SVE 29 s/d	58 (Page 1 of 1)

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06-15-2005 J:\CLIENT~1\G\GEN	NUIN-1\2829EG-	1.THR\FIGURE~1	SOILBO~1\SOILB	IO~1\KB-59.BOR								· .	
18	<u>.</u>	<u>.</u>	.	• •	x	م	4		2	1	Depth in		쥬
	*	000000000					-0 -0 -0		-0 -0 -0		GRAPHIC	i m	RA
	Clay LOAM w/fine sand (10YR 5/2) wet	SAND AND GRAVEL	Fine SAND	LOAM w/sand and gravel (10YR 5/2)	CLAY, stiff (10YR 3/2) sand at 8'	Silty Clay LOAM (10YR 4/3)	as above w/grave! (10YR 5/2)	as above w/clay tile debris (10YR 3/3)	ी as above (10YR 5/2)	TOPSOIL w/gravel (10YR 4/3)	DESCR	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
	2)			s/2)				3/3)			DESCRIPTION	Project ID Date Drilled Drilling Method Geologist Drilling Co.	
												: 2829E : 8/10/04 : Geoprobe : Jason Condry : KEI	LOG
		4		۵		N					Samples		유
	1.6	4		· · · · · · · · · · · · · · · · · · ·		4.0			3. 6		Rec Feet		ВОГ
	57.0	329.7	420.1	141.3	0.0			0.0	ć	0	Ppm FID	General Location	LOG OF BORING KB-59
	•										Water Levels	l Local	p p
											REMARKS	tion : 15' E, 8' N of SVE 29 s/d	59 (Page 1 of 1)

 <u></u>	12-		J		4	<u>.</u> L. 1	0	Depth in feet		至
					XXX	XXX		GRAPHIC		
	SAND (fine), gravelly (fine), wet (non-satiated), loose, dark gray (5 Y 4/1)	SAND (fine), very gravelly (fine), wet (non-satiated), loose, dark gray (5 Y 4/1) SILT LOAM, very gravelly (fine), wet (satiated), firm, dark (5 Y 4/1)	SILT LOAM, slightly gravelly (fine), moist, firm, grayish brown (2.5 Y 5/2)				Asphalt (0-0.3'), gravel (0.3-0.5') Silt loam FILL, sigihtly gravelly, moist, dark yellowish brown (10 YR 3/6)	DESCF	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
	non-satiated), loose,	wet (non-satiated), vet (satiated), firm, c), moist, firm, grayisl			·	oist, dark yellowish	DESCRIPTION	Project ID Date Drilled Drilling Method Geologist Drilling Co.	
		ark			٠				: 2829E · : 9/14/04 : Geoprobe : SRC : KEI	LOG
		ယ		N			<u> </u>	Samples		유
		3.2	· · · · · ·				2	Rec		: BOF
		35.3		5.7	1.7	¥	2.6	DIG	Gener	LOG OF BORING KB-60
		4						Water Levels	General Location	Ā
		Groundwater sample collected for lab analysis (screen set at 7-12' bgs)	Soil sample collected for lab analysis (8-10')					REMARKS	ation : 70' W & 30' S from the : SW corner of Site : building	.60 (Page 1 of 1)

06-15-2005 06-15-2005	J:\CLIENT-1\G\GENUIN-1\2829EG-	1.THR\FIGURE~1\SOII	LBO~1\SOILBO~1\I			**************************************	,,, 	· ·	Depth in feet			. KER
									GRAPHIC		ດ	AM
		Wet (non-satiated to satiated)	SANDY LOAM, slightly gravelly (fine), moist, firm, dark (gray (2.5 Y 4/0) SAND, very gravelly (fine), wet (non-satiated), loose, dark gray (2.5 Y 4/0)	Very gravelly (fine)		(non-satiated), friable, yellowish brown (10 YR 5/4)	SANDY LOAM, very gravelly (fine), moist, loose, light olive brown (2.5 Y 5/3)	SIZYELOAM, Slightly gravelly (fine), moist, friable, grayish brown (10 YR 4/2) Black staining and slight solvent odor present Very dark grayish brown (10 YR 3/2)	DESCR	KERAMIDA Project No. 2829E	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	KERAMIDA Environmental, Inc.
			ine), moist, firm, dark on-satiated), loose,			rown (10 YR 5/4)), moist, loose, light olive	, moist, friable, dark dor present /2)	DESCRIPTION		Project ID : 2829E Date Drilled : 9/14/04 Drilling Method : Geoprobe	
											p m	LOG
		4	· 3		2	<u> </u>			Samples			G OF
		2.0	2.9		2.1			ယ Gr	Rec			= BO
		137.2	78.7	25.6	₹ .	22.8	16.8	4.6	PID		General Location	BORING KB-61
									Water Levels	·	Locati	<u> </u>
		·	Groundwater sample collected for lab analysis (screen set at 10-15' bgs)	Soil sample collected for lab analysis (8-10')					REMARKS		ion : 90' W & 30'S from the : SW comer of Site : building	61 (Page 1 of 1)

06-15-2005 J:\CLIENT~1\G\GENUIN~	1\2829EG~1.THR\FIGURE~1	\SO LBO~1\SO LBO~1\	KB-62.BOR			_			
16-			φ		<u> </u>	0	Depth in feet		至
		<u> </u>					GRAPHIC	쥐	A A
		SAND, extremely gravelly (fine), wet (saitated), loose, dark gray (5 Y 4/1)			SAND (fine), gravelly (fine), moist, loose, brown (10 YR 5/3) SILT LOAM w/ sand (fine), moist, friable, dark grayish brown (10 YR 4/2); few, fine, faint iron concretions Slighlty gravelly (fine to medium), dark gray (5 Y 4/1)	SILT LOAM, slightly gravelly (fine), moist, loose, yellowish brown (10 YR 5/4) Dark gray (10 YR 4/1)	DESCF	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
		wet (saitated), loose,			, loose, brown friable, dark grayish iron concretions dark gray (5 Y 4/1)	, moist, loose, yellowish	DESCRIPTION	Project ID : 2829E Date Drilled : 9/14/04 Drilling Method : Geoprobe Geologist : SRC Drilling Co. : KEI	LOG
	4			N		_	Samples		유
	ω ω	23		2.5		ထ	Rec		: BOF
	127.4	×.	302	NA 12	1.5	0.4	PID	General Location	LOG OF BORING KB-62
		4					Water Levels	Locat	⊕
		Groundwater sample collected for lab analysis (screen set at 10-15' bgs)	Soil sample collected for lab analysis (8-10")		Soil sample collected for lab analysis (4-6')		REMARKS	tion : 130' W & 70'S from the : SW comer of Site : building	62 (Page 1 of 1)

 16	<u> </u>	is Light					م ــــــــــــــــــــــــــــــــــــ				Depth in				
							等等等		杂杂		GRAPHIC	짂	0		Ş
	SAND (fine), very gravelly (fine), wet (non-satiated to satiated), loose, dark grayish brown (2.5 Y 4/2)	Wet (non-satiated)	Very gravelly (fine to medium)	SILT LOAM, slightly gravelly (fine), wet (non-satiated), firm, dark gray (2.5 Y 4/0)			Gravelly (fine to medium)		Moist, firm, brown to dark brown (10 YR 4/3)	TOPSOIAM, gravelly (fine) dry, fri brown (10 YR 4/2)	DESCF	KERAMIDA Project No. 2829E	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana		KERAMIDA Environmental, Inc.
	wet (non-satiated to wn (2.5 Y 4/2)), wet (non-satiated),					10 YR 4/3)	friable, dark grayish	DESCRIPTION	Geologist Drilling Co.	thod		
							•					SRC	: 2829E : 9/14/04 : Geoprobe		LOG OF
		A .	ω			N					Samples				Š
	o	o 0	3.2			1.0			3.6		Rec				
	62.7	97.8	95.6	69	₹	1.5		0.0		0.2	PID		General Location		BORING
		4									Water Levels		al Loca		KB-63
		Groundwater sample collected for lab analysis (screen set at 10-15' bgs)	Soil sample collected for lab analysis (10-11.2)	Soil sample collected for lab analysis (8-10')							REMARKS		tion : 125' W & 30' N from the : SW comer of Site : building	(Page 1 of 1)	63

06-15-2005	J:\CLIENT~1\G\GENUIN~1\2829EG	~1.THR\FIGURE~1\SOIL	LBO~1\SCILBO-1\F	(B-64,BOR					Γ		 1
20-	5	12					1	0	Depth in feet		Ã.
									GRAPHIC	KER JO	X
		SAND (fine), very gravelly (fine), wet (satiated), loose, dark grayish brown (2.5 Y 4/2)	Wet (non-satiated)	SILT LOAM, gravelly (medium to coarse), moist, firm, dark gray (2.5 Y 4/0)	Dark gray (2.5 Y 4/0)	Rock (4.5-4.6') Slight solvent odor present		Asphalt (0-0.3'), gravel (0.3-0.5') SILT LOAM, slightly gravelly (fine), moist, firm, dark grayish brown (10 YR 4/2)	DESCR	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
		wet (satiated), loose,		coarse), moist, firm, dark				, moist, firm, dark	DESCRIPTION	Project ID : 2829E Date Drilled : 9/14/04 Drilling Method : Geoprobe Geologist : SRC Drilling Co. : KEI	LOG
		4	ω		N				Samples	1	OF
		, <u>)</u>	2.6		. <u>.</u> .		2.8		Rec		BOR
		69.2 69	100.8	182	₹	352	0.2	0.0	PID	General Location	LOG OF BORING KB-64
		•				B) (0			Water Levels	.ocatio	B-6
		Groundwater sample collected for lab analysis (screen set at 9.5-14.5' bgs)	Soil sample collected for lab analysis (10-10.6)	Soil sample collected for lab analysis (8-10')		Soil sample collected for lab analysis (4-6')			REMARKS	n : 99' W & 34' N from the : SW comer of Site : building	(Page 1 of 1)

69		12		co				GRAPHIC	, KER	KERAM
	SAND (fine), gravelly (fine to medium), wet (satiated), loose, dark gray (2.5 Y 4/0)	Moist to wet (non-satiated)	gray (2.5 Y 4/0)	SILT LOAM, slightly gravelly (fine), moist, friable, dark			SILT LOAM, slightly gravelly (fine to medium), moist, loose, brown (10 YR 5/3)	DESCR	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
	dium), wet (satiated),), moist, friable, dark), moist, firm, brown		to medium), moist, loose,	DESCRIPTION	Project ID : 2829E Date Drilled : 9/14/04 Drilling Method : Geoprobe Geologist : SRC Drilling Co. : KEI	LOG
	4	Ţ.	ω	1	N			Samples		G OF
	P. 88		ယ ၁		2.5		ა. წ	Rec		- BOI
	9.6 73.6	24.1	31.7	21.9	1.0	0.6	5.2	Did	General Location	OF BORING KB-65
	9-14' bgs)	analysis (10-117) Groundwater sample collected	analysis (o-10) Soil sample collected for lab	Soil sample collected for lab				Water Levels REMARKS	ocation : 140' W & 25' S from the : SW comier of Site : building	B-65 (Page 1 of 1)

05-03-20	05 G:\CL!ENTS\G\GEN	NUIN-1\AI	PRIL2~1\	KB-66.BOR		 					· · · · · · · · · · · · · · · · · · ·	·	
40	ა ა	ن	}	25	<u> (</u>	20	5	5		л о Гиниција	Depth in feet		
											GRAPHIC] _ल ,	_ \
			SAND (medium), wet		SAND (coarse), gravelly (fine), wet	SIL I LOAM, wet SAND (medium), slightly gravelly (fine), wet decreasing down to moist, light olive brown (2.5 Y 5/3)	(2.5 Y 5/3)	Y 5/3) SAND (fine) slightly gravely (fine) wet light glive brown	SAND (medium), slightly gravelly (fine), moist, loose, some banding of varying colors	SANDY CLAY LOAM, moist, friable, very dark grayish brown (10 YR 3/2) SANDY CLAY, slightly gravelly (fine), moist, friable, yellowish brown (10 YR 5/6) LOAM, moist, friable, yellowish brown (10 YR 5/4)	DESCRIPTION	700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project #2829E	KERAMIDA Environmental, Inc.
						(fine), wet decreasing 5 Y 5/3)		wet light glive brown	fine), moist, loose,	e), moist, friable, wn (10 YR 5/4)		sthod	LOG
		۸)	ယ	ယ	4	ω	ა ა	ω	ω .s	Rec		유
		₹.	0.0	0.0	1.0 2.2	11.7	1.0 8.0	22	0.2	0.6	PID] .	ВС
				Groundwater sample collected for possible lab analysis (24-28)	Groundwater sample collected for possible lab analysis (20-24)	Groundwater sample collected for possible lab analysis (16-20)	Groundwater sample collected for possible lab analysis (12-16)				REMARKS		LOG OF BORING KB-66 (Page 1 of 1)

05-03-2005	G:\CLIENTS\G\GENUIN-	-1/APRIL2~1/KB-67.B	OR	:	 								· · · · · · · · · · · · · · · · · · ·			
4	3 5	8	25	20	 	این	;	3		نا.		1	Depth in feet			쥬
		•				: : : ≀							GRAPHIC			RAN
					(LOAMY SAND, wet, friable, olive brown (2.5 Y 4/4) SAND (medium), wet, loose, dark gray (2.5 Y 4/1)	SANDY LOAM, moist, friable, olive brown (2.5 Y 4/4)				SAND (medium), slightly gravelly (fine to coarse), dry	SANDY CLAY LOAM, moist, friable, olive brown (2.5 Y	SANDY CLAY, moist, friable, dark yellowish brown (10 YR 4/4)	DESC	KERAMIDA Project #2829E	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	KERAMIDA Environmental, Inc.
					brown (2.5 Y 4/4) gray (2.5 Y 4/1)	wn (2.5 Y 4/4)				(fine to coarse), dry	ble, olive brown (2.5 Y	k yellowish brown (10	DESCRIPTION	Geologist : Rob Hoverman Drilling Co : KEI	ithod	ГО
						,	ـــــــ	<u>ب</u>	N			3.75	Rec Feet	man	w .	Ğ.
					24.6	15.3	0.6	0.0	0.2	0.6	0.0	0.0	ppm PID			F BC
			•		(12-16) Soil sample collected for possible lab analysis (14-16)								REMARKS '		General Location : Northwest of MW-10-1R	LOG OF BORING KB-67 (Page 1 of 1)

05-03-2005	G:\CLIENTS\G\GENUII	N~1\APR L2~1\KB-68.I	BOR								,	,	
46 	36 	8 	25	20	<u>ភ</u>			on l		Depth in feet			A A
										GRAPHIC] A		₩
						As above, wet at 10.5'	Coo	SANDY LOAM, moist, friable, brown (10 YR 4/3) SAND (medium to coarse), slightly gravelly (fine), moist,	CLAY LOAM, moist, friable, dark yellowish brown (10 YR 3/4) SANDY CLAY LOAM, slightly gravelly (fine), moist, friable, dark yellowish brown (10 YR 3/6)	DESCF	KERAMIDA Project #2829E	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	KERAMIDA Environmental, Inc.
		•						wn (10 YR 4/3) y gravelly (fine), moist,	yellowish brown (10 YR velly (fine), moist, friable,		Geologist : Rob Hoverman Drilling Co : KEI	thod	ГОС
					ω	2.5		_	4	Rec			유
					0.2	¥.	0.2	0.6	0.6	PPD			B.
					Groundwater sample collected for possible lab analysis (12-16)					REMARKS		General Location : South of Site trailer	LOG OF BORING KB-68 (Page 1 of 1)

40	<u>,,1,,,</u>	35	30-1-1		SAND (medium to coarse), slightly gravelly (fine to	medium), wet, loose	20 SAND (medium to coarse), slightly gravelly (fine to		15		SAND (fine to medium) wer loose brown (2.5 Y 5/4)	10		SAND (medium), moist, loose, yellowish brown (10 YR	CLAY LOAM, moist, friable, dark olive brown (2.5 Y 3/3) LOAMY SAND, slightly gravelly (fine), moist, friable, dark Vellowish brown (10 YR 4/4)	0 — SANDY LOAM, slightly gravelly (fine), moist, friable, very ∴ dark yellowish brown (10 YR 3/4)	Depth IC in PHI Rec feet GR PTION Rec	KERAMIDA Project #2829E	Genuine Parts Company Project ID : 2829E 700 North Olin Avenue Date Drilled : 3/28/05 Indianapolis, Indiana Drilling Method : Push-probe	KERAMIDA Environmental, Inc. LOG OF
	-	6.0	 0.0	,	1.0		1.0	2.6	2.2	2.6	1.0	1.4	₹	0.0	0.0	0.0	ppm PID	1		
		Groundwater sample collected for possible lab analysis (32-36)	Groundwater sample collected for possible lab analysis (28-32)			Groundwater sample collected for possible lab analysis	(16-20)		(12-16)	 							REMARKS		General Location : East of Site trailer and : south of pavement edge	BORING KB-69 (Page 1 of 1)

05-03-2005 G;\CLIENTS\G\GENUIN~1\APRIL2~1\KB-69.BOR

05-03-2005	G:\CLIENTS\G\G	ENUIN~1\APRIL2~1\KI	B-70.BOR				. •				
40	<u>35</u>	. 3	25	20	15	10,,,	On .	, , , , , , ,	Depth in feet		盈
									GRAPHIC		R _A
					loose	Black staining at 10'	SAND (medium), slightly gravelly (fine), moist, loose, pale brown (10 YR 6/3) SAND (medium), moist increasing down	CLAY LOAM, moist, friable, dark grayish brown (10 YR 4/2)	DESCF	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project #2829E	KERAMIDA Environmental, Inc.
					inc to incornin), wet		(fine), moist, loose, pale) down	grayish brown (10 YR	DESCRIPTION	Project ID : 2829E Date Drilled : 3/28/05 Drilling Method : Push-probe Geologist : Rob Hoverman Drilling Co : KEI	LOC
:				v .	မ	ω	2.75	ω	Rec	a a	0.0
					0.2	0.2	0.2	0.0	PPID PID		FBC
					Groundwater sample collected for possible lab analysis (12-16)	Soil sample collected for possible lab analysis (9.75-10) Groundwater sample collected for possible lab analysis (8-12)			REMARKS	General Location 20' south of KB-68	LOG OF BORING KB-70 (Page 1 of 1)

07-13-2006 J:\CL ENT~1\G\GENUIN~1\2829EG~1.THR\F\GURE~1	SOILBO-1/SOILBO-1/KB-	71.BOR			1	 	
20 16					Depth feet	_ _ '	
					GRAPHIC	ndian	RA.
	Sand (medium to coarse), (fine), (medium), loose, wet (satiated), 5Y 4/1 (dark gray)	Sandy Loam, gravelly (medium), friable, moist, 5Y 4/2 (olive gray), solvent like odor Same as above, wet (non-satiated),	Sand (medium to coarse), (fine), (medium), loose, moist, 2.5Y 3/2 (very dark grayish brown)	Silt Loam, slightly gravelly (medium), friable, dry, 2.5Y 3/2 (very dark grayish brown) Sandy Loam, slightly gravelly (medium), friable, dry, 2.5Y 4/3 (olive brown)	DESCRIPTION	Genuine Parts Company 700 North Olin Avenue Indianapolis, Marion County, Indiana KERAMIDA Project No. 2829E-001	KERAMIDA Environmental, Inc.
	nedium), loose, wet	iable, moist, 5Y 4/2	nedium), loose, moist,	n), friable, dry, 2.5Y 3/2 Jium), friable, dry, 2.5Y	ÖN	Project ID : 2829E-001 Date Drilled : 10-03-05 Drilling Method : Push-Probe Geologist/Tech : Ryan Moore Drilling Co : KEI	
	ы	N			Samples	E-001 3-05 -Probe Moore	<u> </u>
·	100	8		88	Rec		G O
	659.1	359.1	39.2	0 0	FID		- BO
	Soil sample collected for lab analysis (8-10°). Soil sample collected for lab analysis (10-12°).				REMARKS	General Location : Adja	LOG OF BORING KB-71
•						: Adjacent to SVE 32	1 of 1)

Indianapolis, Marion County, Indiana Merchamida Project No. 2829E-001 CET Description CE	Indianapolis, Marion County, Indiana KERAMIDA Project No. 2829E-001 DESCRIPTION BelongistTech Ryan Moore Conting North County Description Conting Agrand GeologistTech Ryan Moore Rec Briting Co KEI Still Loam, friable, moist, 10YR 3/2 (very dark grayish brown) Same as above, slightly gravelly (medium), friable, brick fragments Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-suitated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Indianapolis, Maritico County, Indiana CERAMIDA Project No. 2829E-001 DESCRIPTION BAR DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION Same as above, slightly gravelly (medium), friable, brick fragments Same as above, slightly gravelly (medium), friable, brick fragments Same as above, slightly gravelly (medium), friable, brick fragments Same as above, slightly (medium), loose, moist, 2.57 4/4 (olive brown) Same as above, gravelly (medium), friable, moist, 57 4/1 (dark gray), solvent like odor (non-satiated), 2.57 4/4 (olive brown) Same as above, wet (satiated) DESCRIPTION Publication GeologistTech : Ryan Moore Base Rec. Same Rec. Same Rec. Same Rec. July 100 1 80 1 80 1 1	KERA	KERAMIDA Environmental, Inc. Genuine Parts Company	: 28286		3 OF	ВОЯ	LOG OF BORING KB-72
DESCRIPTION Bill Loam, friable, moist, 10YR 3/2 (very dark grayish frown) Same as above, slightly gravelly (medium), friable, brick fragments Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish frown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (satiated) Same as above, wet (satiated)	DESCRIPTION Bit Loam, friable, moist, 10YR 3/2 (very dark grayish brown) Same as above, slightly gravelly (medium), friable, brick fragments Sandy Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	DESCRIPTION DESCRIPTION DESCRIPTION PAR DESCRIPTION Page Page Page Page DESCRIPTION Page Pa	KER India	Genuine Parts Company 700 North Olin Avenue Indianapolis, Marion County, Indiana KERAMIDA Project No. 2829F-001	hod	E-001 -05 Probe Moore			
Silt Loam, friable, moist, 10YR 3/2 (very dark grayish brown) Same as above, slightly gravelly (medium), friable, brick fragments Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Silt Loam, friable, moist, 10YR 3/2 (very dark grayish brown) Same as above, slightly gravelly (medium), friable, brick fragments Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Silt Loam, friable, moist, 10YR 3/2 (very dark grayish brown) Same as above, slightly gravelly (medium), friable, brick fragments Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coartse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	GRAPHIC	DESCRIPT	-	amples	₹ 8	FID	
fragments 1 80 Loarny Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	fragments Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	fragments I coarny Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark gray/sh brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)			(very dark grayish			3	
Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)			nedium), friable, brick	_	88	0 0	
Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Sandy Loam, friable, moist, 2.5Y 3/2 (very dark gray/ish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown) Same as above, gravelly (medium), friable, moist, 5Y 4/1 2 100 (dark gray), solvent like odor Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)		Loamy Sand (medium), loose, mol brown)	st, 2.5Y 4/4 (olive			•	
Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	. 	Sandy Loam, friable, moist, 2.5Y brown) Same as above, gravelly (medium (dark gray), solvent like odor	1/2 (very dark grayish , friable, moist, 5Y 4/1	. 8		249.1	Soil sample collected for lab analysis (6-7).
Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown) Same as above, wet (satiated)	Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated). 2.5Y 4/4 (olive brown) Same as above, wet (satiated)					·. ·	194.3	
Same as above, wet (satiated)	Same as above, wet (satiated)	same as above, wet (satiated)	555 1	Sand (medium to coarse), (fine), (inon-satiated), 2.5Y 4/4 (olive bro	nedium), loose, wet vn)	ω	100	•	
	<u> </u>	16	3	Same as above, wet (satiated)				707.1	= =

Committee Parts Company Project In Section Pr	07-13-2008 J:\CLIENT-1\G\GENUIN-1\2829EG~1.THR\FIGURE~1	SOILBO-1\SOILBO-1\KB-73.BOR	
RAMIDA Environmental, Inc. Garuine Pats Company TO North Olin Avenue Indianapolis, Indiana Indianapolis, Indi	16	Depth feet feet	<u>~</u>
Project ID 2829E Date Drilling Method 6 Geoprobe Geologist RSF Drilling Co. KEI 1 50 Soft to medium, dank gray 2 75 soft to medium, dank gray 2 75 1.50		GRAPHIC	
LOG OF BORING KB- Samples Samples Samples PriD PriD Water Levels			MIDA Environmental, Inc. Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana RAMIDA Project No. 2829E
General Location :25 SW of KB-52 Rec FID Water Levels 1.5 O Soil sample collected for lab analysis (6-10) 1.5 1.5		IPTION loose loose oft to medium, dark gray	: 2829 : 6/28// : Geop : RSF : KEI
FID ter Publish REMARKS Rec FID Was REMARKS Prophm Soll sample collected for lab analysis (9-10) 1.5 Soll sample (9-10) 1.5		ω N → Samples	<u>o</u>
Qeneral Location :25 SW of KB-62 General Location :25 SW of KB-62 FID Water Levels Ppm Water REMARKS Ppm Soil sample collected for lab analysis (8-10)		Rec **	F BOF
Water Levels Soil sample collected for lab analysis (8-10) Soil sample co		1.5 0 1.5 0 Ppm Ppm	Genen
(Page 1 of 1) tition : 25' SW of KB-62 REMARKS REMARKS			vels Ca B
	•	REMARKS Soll sample collected for lab	🗟

20		73 	ta ta takakaka k			11-1-1-1	GRAPHIC		ĺτ. Σ
·		Fine to medium sand with gravel, wet, dark gray, loose	wet	Silt Loam with sand, moist, stiff, slight red staining, dark gray and tan No staining	Fine to medium sand, brown, loose, dry With gravel	Topsoil Sill nam dry loose tan/prown		Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, inc.
	•	el, wet, dark gray, loose		slight red staining, dark	ose, dry		DESCRIPTION	Project ID : 2829E Date Drilled : 6/28/06 Drilling Method : Geoprobe Geologist : RSF Drilling Co. : KEI	
			ယ	N			Samples		2
			75	19		100	Rec		2
			2, 0	88 12		0 .	FID	General Location	
			4				Water Levels	Locatio	5
				Soil sample colected for lab analysis (6-8)			REMARKS	n : 25' S of KB-62	9

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07-13-2006 J:\CLIENT~1\G\GENUIN~1\2829EG~1.THR\F\GURE-	TISUILBU~TISUILBU~TIRB-75.BUP					
 20 1 1 1 1 1 1 1 1 1 1		80 · 4-	· 	Depth feet		쥬
				GRAPHIC	줆	
		With gravel Medium sand, tan, loose, dry Silf loam with sand, medium stiff, tan, dry Sulf, dark gray	Topsoil Silt Loam with sand,medium stiff, dry, brown	DESCRIPTION	Genuinė Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
		an, dry	iry, brown	IPTION	Project ID : 2829E Date Drilled : 6/26/06 Drilling Method : Geoprobe Geologist : RSF Drilling Co. : KEI	10
	ω	N		Samples		Ğ
	100	75	100	% Rec		F BOI
	14 14 55 55 55 55 55 55 55 55 55 55 55 55 55	0	0 0	FID	General Location	LOG OF BORING KB-75
	4			Water Levels	<u> </u>	₩
	Soil sample colected for lab analysis (8-10)			REMARKS	ation : 25' SSE of KB-62	-75 (Page 1 of 1)

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-119011	CBO-113OILE	30~1KB	-76.BOR								.,				
12-) 							Depth in feet				<u></u>
52										1 -1 -1 -	GRAPHIC				R _A
Medium sand with gravel, wet, tan	Acid Horse to Maci					Medium sand with gravel, tan, loc		Dark gray, medium to stiff		Topsoil with gravel fill material	DESCR	RAMIDA Project No. 2829E	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana		KERAMIDA Environmental, Inc.
1, loose	÷					se, dry			oft, brick fragments		RIPTION				
												RSF	2829E 6/28/06 Geoprobe		LOG
		۵.			^	,			_		Samples	<u>.</u>			우
	Ę	<u> </u>			ğ				100		^R ec				BOF
	250	40	È	800		Ş	3	0		0	PPm PPm		Genera		LOG OF BORING KB-76
		∢									Water Levels]	Loca		φ ·
				Soll sample colected for lab analysis (6-8)							REMARKS		tion : 18' E of KB-62	(Page 1 of 1)	76
	12-	12 5000 Medium sand with gravel, wet, tan, loose	Very moist to wet 3 100 12 5055 Medium sand with gravel, wet, tan, loose	Very moist to wet 3 100 250 Medium sand with gravel, wet, tan, loose	Dark gray 8———————————————————————————————————	Sitt loam, dry, tan, medium stiff Bark gray Moist Very moist to wet Very moist to wet Medium sand with gravel, wet, tan, loose	Medium sand with gravel, tan, loose, dry Sitt loam, dry, tan, medium stiff Bark gray Wery moist to wet Very moist to wet Medium sand with gravel, wet, tan, loose 2 100 800 490 250	Brick fragments (4-5') Medium sand with gravel, tan, loose, dry Slit loam, dry, tan, medium stiff Dark gray Very moist to wet Very moist to wet, tan, loose 3 100 250 490	Dark gray, medium to stiff 4	Dark gray, medium to stiff Dark gray, medium to stiff Medium sand with gravel, tan, loose, dry Silt loam, dry, tan, medium stiff Dark gray woist to wet Wery moist to wet Medium sand with gravel, wet, tan, loose 12 Medium sand with gravel, wet, tan, loose	O 1 (Topsoil with gravel fill material 7 Topsoil with gravel fill material 8 Topsoil with sand; dry, brown, soft, brick fragments 9 Topsoil with sand; dry, brown, soft, brick fragments 9 Topsoil with gray, medium to stiff 9 Topsoil with gray, medium to stiff 9 Topsoil with grayel, tan, loose, dry 9 Topsoil with grayel, tan, medium stiff 9 Topsoil with grayel, tan, medium stiff 9 Topsoil with grayel, wet, tan, loose 9 Topsoi	Depth III In RA III Topsoil with gravel fill material O I Topsoil with gravel fill material O	Company Comp	Genuine Parts Company Indianapolis, Indiana Indianapolis, Indianapolis I	Genuine Parts Company TOO North Clin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E Indianapolis, Indiana REPAMIDA Project No. 2829E Indianapolis, Indiana REPAMIDA Project No. 2829E Indianapolis, Indiana Geologist Indianapolis, Indiana Company Indianapolis, Indiana Company Company Indianapolis, Indiana Company Compa

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NUIN~1\2829EG~1.THR\FIGUR	RE-1\SOILBO-1\SOILBO-1\KB-77.BOR					 -
n n	12- 8-			Depth feet		쥬
5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	<u></u>		<u></u>	GRAPHIC	爱	ZAM
			Topsoil No recovery	DESCR	enuine Parts Company 700 North Olin Avenue Indianapolis, Indiana AMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
	noist loose very moist ose, wet	tan, dry		LIPTION	hod .	
				O	2829E 3/28/06 Geoprobe RSF KEI	LOG OF BORING KB-77
4	ω	N		Samples		유
100	100	100	25	Rec	.	BOR
35 47	37 39	68 30	20	ppm .	General I	NG K
	1			Water Levels	ocatio	B-7
	Soll sample colected for lab analysis (10-12)	Soll sample colected for lab		REMARKS	n : 25' NE of KB-62	7 (Page 1 of 1)
	4 100	becoming moist 37 38 Medium sand with gravel, tan, moist, loose Silt loam with gravel, dark gray, very moist Cocco Cocco	Stit loam with sand, medium stiff, tan, dry Dark gray and tan, with gravel Dark gray, with gravel becoming moist B. Stit loam with gravel, tan, moist, loose Stit loam with gravel, dark gray, very moist 12 2 5050 Medium to coarse sand, gray, loose, wet 5050 Medium to coarse sand, gray, loose, wet 5050 Medium to coarse sand, gray, loose, wet 5050 Medium to coarse sand, gray, loose, wet	No recovery No recovery 1 25 No recovery 1 25 Still loam with sand, medium stiff, tan, dry Dark gray and tan, with gravel Bark gray, with gravel Bark gray, with gravel, tan, moist, loose Still loam with gravel, tan, moist, loose Still loam with gravel, tan, moist, loose 12 37 Still loam with gravel, tan, moist, loose 4 100 35 40 47 47	DESCRIPTION BESCRIPTION GRAPH Topsoil Or Topsoil No recovery No recovery Dark gray and tan, with gravel Dark gray with gravel and tan, with gravel Becoming moist Sitt loam with gravel, tan, moist, loose Needium sand with gravel, dark gray, very moist Dark gray in the gravel dark gray, loose, wet 12 33 Wedium to coarse sand, gray, loose, wet 14 15 16 17 18 19 20 20 30 30 31 40 31 32 41 100 33 41 41 41 41 41 41 41 41 41	Genutine Parits Company Indianaptic, Indiana Indianaptic, Indiana KERAMIDA Project No. 2829E KERAMIDA Project No. 2829E Geologist Fig. DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION Description No recovery No recovery Dark gray and tan, with gravel Dark gray with gravel, dark, gray, very moist Dark gray, loose, wet Dark gray and tan, moist, loose Sill learn with gravel, dark, gray, loose, wet Dark gray and tan, moist, loose Bare prid tan, with gravel, dark, gray, very moist Dark gray, loose, wet Dark gray and tan, with gravel, dark gray, loose, wet Dark gray, loose, wet Dark gray and tan, with gravel, dark, gray, loose, wet Dark gray and tan, moist, loose Bare cleared Looste Sill learn with gravel, dark, gray, loose, wet Dark gray and tan, moist, loose Dark gray, loose, wet

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07-	-13-2006 J:\CLIENT-1\G\GENUIN-1\2829EG-1.THR\FIGURE-1\S	SOILBO-1\SOILBO-1\KB-	78.BOR				T		
20-	16	; ;	6 5		* 	0	Depth in feet		<u> </u>
-	╒ ╸					4 4	GRAPHIC		. Ag
		Fine to medium sand, loose, gray and tan, wet	Sandy silt Loam, dry, stiff, gray Moist		Medium sand with gravel, tan, loose, dry Sitt loam with sand, dark gray and tan, dry, soft, some black staining (3-3.5)	Topsoil with gravel and wood	DESCF	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
		y and tan, wet		vel, loose, brown, dry	se, dry 1 tan, dry, soft, some		DESCRIPTION	Project ID : 2829E Date Drilled : 6/28/08 Drilling Method : Geoprobe Geologist : RSF Drilling Co. : KEI	ĹO
						=	Samples	-	G C
		ω		N		=		-	ř
		100		100	8		% ec) S
,		226	23 8	ω <u>σ</u>	20.5 760		PPM	General Location	LOG OF BORING KB-78
	·	4					Water Levels	Locati	₩ ₩
		Soll sample colected for lab analysis (10-11)			Soll sample colected for lab enalysis (2-4')		REMARKS	ion : 25' NW of KB-62	78 (Page 1 of 1)

09-12-2006 G:\CLIENTS\G\GENUIN	N~1\2829EG~1.THR\2829E~2\BORIN	G~1\KB-A.BOR				
5	10					ЭХ
				GRAPHIC	ormer Villison	RAM
	SAND (fine), moist, loose, dark gray (5 Y 4/1) SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1), strong odor present SAND (fine), extremely gravelly (fine), moist, loose, very dark gray (5 Y 3/1)	SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5),4/1)	Blind Drilled (0-4')	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
·	ay (5 Y 4/1) nedium), moist, firm, resent ren, moist, loose,	nedium), moist, firm,		NOITE	Project ID : 2 Date Drilled : 8 Drilling Method : P Geologist/Tech : S Drilling Co. : K	
					2829E-005 8/24/2006 Push-probe Steve Cobb	_
	د. 4.	2.8	¥	feet	6 05 6 05	6
	287	0.0	\$ \$	ppm PID		OF BO
				REMARKS	(Page 1 of 1) General Location : North of SVE-1 in the southern portion of the Holt Road entrance	LOG OF BORING KB-A

09-12-2	2006 G:\CLIENTS\G\GENUIN~1\2829EG~1.THR\2829E	2\BORING~1\KB-	B.BOR	 							
15	10			Gi			, 9	Depth feet	> π	l	盃
				**************************************				GRAPHIC	ormer Hison		₹AM
		Rock SAND (fine), extremely gravelly (fine to medium), moist, loose, very dark gray (5 Y 3/1)		SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1)			Blind Drilled (0-4')	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005		KERAMIDA Environmental, Inc.
		fine to medium), 3/1)		nedium), moist, firm,				NOITE	Project ID : 2829E-005 Date Drilled : 8/24/2006 Drilling Method : Push-probe Geologist/Tech : Steve Cobb Drilling Co. : Keramida		
		1.4	2.6	· .		\$		rea	-005 006 orobe Cobb		LOG
		1.0		0.0	₹	¥		PID]		OF BO
5-			Collected a soil sample					R E	General Location	1	LOG OF BORING KB-B
	·		Collected a soil sample for laboratory analysis (6-8')					REMARKS	: Northwest of SVE-1 in : the southern portion of : the Holt Road entrance	(Page 1 of 1)	

09-12-2006 G:\CLIENTS\G\GENUIN~1\2829EG	~1.THR\2829E-	~2\BORING~1\KB-C.B	OR						
об П	. 10			υπ . Ι			Depth feet	+ + m	<u>⊼</u>
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				GRAPHIC	ormer Ilison	RAM
	dark gray (5 Y 4/1)  SAND (fine), extremely gravelly (fine to medium), moist, loose, yellowish brown (10 YR 5/4)	SAND w/ gravel  SANDY LOAM, gravelly (fine to medium), moist, firm,		SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1)		Blind Drilled (0-4")	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
	fine to medium), YR 5/4)	nedium), moist, firm,		nedium), moist, firm,			TION	Project ID : 2829E-000  Date Drilled : 8/24/2006  Drilling Method : Push-prob  Geologist/Tech : Steve Cob  Drilling Co. : Keramida	
		97	3.0		NA A		feet	2829E-005 8/24/2006 Push-probe Steve Cobb	LOG
	2.0	43	38	0.0	₹	₹	PID		OF BC
		Collected a soil sample for laboratory analysis (8-10)					REMARKS	General Location : Approx. 13' north of : soil boring KB-A	LOG OF BORING KB-C (Page 1 of 1)

09-12-2006 G:\CLIENTS\G\GENUIN-1\282	29EG~1.THR\2829E-~2\BORING~1\KE	B-D.BOR				
15	10	σ. 	0	Depth in	⊼ ≥ Ţ	쥬
				GRAPHIC	ormer Ilison C 7	₹AMI
	SAND (fine), moist, loose, brown	olive gray (5 Y 4/2)	Blind Drilled (0-4")	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
		nne), moist, mm,		NOITC	Project ID Date Drilled Drilling Method Geologist/Tech Drilling Co.	
					: 2829E-005 : 8/24/2006 : Push-probe : Steve Cobb	_
	<u>~</u>	, , , , , , , , , , , , , , , , , , ,	\$	feet	9 9 5	) ) (
	0.0	55 & & 60 11	₹ ₹	PID		OF BOI
			·	REMARKS	General Location : Approx. 3' west of the : Holt Road entrance : south gate post	LOG OF BORING KB-D (Page 1 of 1)

09-12-2006 G:\CLIENTS\G\GE	NUIN~1\2829EG~1.THR\282	29E~2\BORING~1\K	B-E.BOR				· , · · · · · · · · · · · · · · · · · ·	<del>, , , , , , , , , , , , , , , , , , , </del>	
जें	70			. <b>ຜ</b>			Depth in feet	- P 7	·
			₹ -				GRAPHIC	ormer Jison (	RAM
	SAND (fine), moist, loose, gray (5 Y 4/1)	wer (samaied), gray (o i o) i)	Dark gray 92.5 Y 4/1)	SAND (fine), moist, loose, brown (10 YR 5/3) SANDY LOAM, gravelly (fine), firm, brown (10 YR 4/3)		Blind Drilled (0-4")	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
	5 Y 4/1)			(10 YR 5/3) m, brown			TION	Project ID : 2829E-00t Date Drilled : 8/25/2008 Drilling Method : Push-prob Geologist/Tech : Steve Cob Drilling Co. : Keramida	
	3.9			ω	₹		feet	2829E-005 8/25/2008 Push-probe Steve Cobb	LOG
	4.5	4.7		10.0	×	₹	PID		LOG OF BORING
			Collected a soil sample for laboratory analysis (8-10)				REMARKS	General Location : Approx. 4' east & 9' north : of the northwest corner of : the west system trailer	ORING KB-E (Page 1 of 1)

09-12-2006	G:\CLIENTS\G\GENUIN	~1\2829EG~1.TH	1R\2829E-~2	2\BOR!NG~1\KB-F	.BOR					···		· · · · · · · · · · · · · · · · · · ·	
5.			<b>5</b>	<del> </del>	<del>ڋڋڋڵڋڔڒ</del> ڹ	<del>zdzaly</del>	51	<del>                                     </del>				Allis KEI	KER
			SAND (fine), moist, loose, dark grayish brown (2.5 Y 4/2)			SANDY LOAM, moist, firm, dark gray (5 Y 4/1)	Sand & Gravel FILL			Blind Drilled (0-4')	GRAPHIC DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
	· .		ayish brown			ray (5 Y 4/1)					TION	Project ID : 2829E-005  Date Drilled : 8/25/2008  Drilling Method : Push-probe  Geologist/Tech : Steve Cobb  Drilling Co. : Keramida	
				2.2		2.4			\$		feet	05 6 5 5 6 7	06 (
				3.2	10.8		0.0	NA		₹	PID		)F BO
				Collected a soil sample for laboratory analysis (8-10')		analysis (5-6.5')	Collected a soil sample for laboratory		·		REMARKS	General Location : Approx. 9' west & 33' north : of the northwest comer of : the west system trailer	LOG OF BORING KB-F (Page 1 of 1)

09-12-2006 G:\CLIENTS\G\GENU	JIN-1/2829EG~1.THR/2829E-~2/BORING-	-1\KB-G.BOR			I	<del></del>	
	10		о _т	0	Depth in feet	⊼ <u>≧</u> ଅ	쥬
			XXX		GRAPHIC	ormer lison (	SAM
	Wet	SANDY LOAM, moist, firm, dark gray (5 Y 4/1) Slightly gravelly (fine to medium)	Silt loam FILL, slightly gravelly (fine), moist, friable, dark grayish brown (10 YR 4/2)	Blind Drilled (0-4')	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
		gray (5 Y 4/1)	ne), moist, friable,		NOIT	Project ID : 2825E-005  Date Drilled : 8/25/2006  Drilling Method : Push-probe  Geologist/Tech : Steve Cobb  Drilling Co. : Keramida	
	 	<u>မ</u> ထ		N A	feet	3 bb	106 (
	8.7		6.0 N	NA	PID		OF BO
		Collected a soil sample for laboratory analysis (6-8')  Collected a soil sample for laboratory analysis (8-10')			REMARKS	General Location : Approx. 23' west & 45' nort : of the northwest comer of : the west system trailer	BORING KB-G (Page 1 of 1)

09-12-2006 G:\CLIENTS\G\GENUIN~1\2829EG~1.THR\	2829E-~2\BORING~1\KB-H.B	OR	···				
55	**************************************			0	GRAPHIC	Forme Allison KERA	KERAN
	SANDY LOAM, moist, firm, gray (5 Y 5/1)	SANDY LOAM, moist, frible to firm, dark grayish brown (2.5 Y 4/2)		Blind Drilled (0-4")	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
	(5 Y 5/1)	n, dark grayish			NOIT	Project ID Date Drilled Drilling Method Geologist/Tech Drilling Co.	
						: 2829E-005 : 8/25/2008 : Push-probe : Steve Cobb	LC
	2.0	2.9	<b>≱</b>		feet	<b>F B</b> •	)6 (
	16 6	0.0	¥	\$	PID		)F BO
	Collected a soil sample for laboratory analysis (8-10')				REMARKS	General Location : Approx. 15' east & 7' : south of KB-64	LOG OF BORING KB-H (Page 1 of 1)

09-12-2006	G:\CLIENTS\G\GENUIN~1\2829EG~1.THR\2829E-~	2\BORING~1\KB-I.E	BOR				<del>                                     </del>		,,
15	10	<del>,,                                   </del>	<del>╒┞╌╒╌┦╒╌╼╏╌═╒┼</del>	ن، <del>د</del>	<del>.  </del>	~'~ <i>\</i> ~	Depth in	<u> </u>	XE T
							GRAPHIC	ison (	ζ M
	Samated), olive (2.1. 4)	SAND (fine), very gravelly (fine to medium), wet		SANDY LOAM, slightly gravelly (fine), moist, friable, dark grayish brown (2.5 Y 4/2) to gray (5 Y 4/1)	SANDY LOAM, very gravelly (fine), moist, firm, very dark grayish brown (10 YR 3/2)	Asphalt Gravel FILL	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
		medium), wet		līne), moist, friable, gray (5 Y 4/1)	3), moist, firm, very		NOITe	Project ID : 28 Date Drilled : 9/ Drilling Method : Pu Geologist/Tech : St Drilling Co. : Ke	
	Ĺ	,					,	: 2829E-005 : 9/6/2006 : Push-probe : Steve Cobb : Keramida	
		1.2	3,2		2.9		feet	) bb	.0G
		0.0	3.2	0.0	0.0	0.0	ppm DIQ		OF BO
		Collected a soil sample for laboratory analysis (8-10')					REM	General Location	LOG OF BORING KB-I
		x laboratory					REMARKS	Approx. 137 west & 103 north of the southwest comer of Site bldg.	(Page 1 of 1)

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	10	1 1		<b>5</b> 1		·	Depth in feet	<b>Α</b> Απ	至
· <del></del>	10. 20. 20. 20. 20. 20. 20. 20. 20. 20. 2						GRAPHIC	ormer of lison G	₹ AMI
		SANDY LOAM, slightly gravelly (fine to medium), friable, gray (5 Y 5/1)		Sandy loam FILL, gravelly (fine), moist, friable to firm, very dark grayish brown (10 YR 3/2)		Blind	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
		(fine to medium),		moist, friable to YR 3/2)			PTION	Project ID Date Drilled Drilling Method Geologist/Tech Drilling Co.	
								: 2829E-005 : 9/6/2006 : Push-probe : Steve Cobb : Keramida	
		2.7		N ယ	<u> </u>		feet	- B - 6	) DG
	2.1	0.0	0.0	0.0	Z	Z ·	ppm		OF BC
	Collected a soil sample for laboratory analysis (10-12)						REMARKS	General Location : Approx. 93' west & 103' : north of the southwest : corner of Site bidg.	LOG OF BORING KB-J

09-12-2006 G:\CLIENTS\G\GEN	NUIN~1\2829EG~1.THR\2829E	2\BORING~1\KB-K	BOR						
15				Gi . I			Depth feet	- > 7	ñ
	·						GRAPHIC	ormer Ilison (	RAM
	Moist to very moist	SANDY LOAM, slightly gravelly (fine to medium), moist, firm, gray (5 Y 5/1)	Sand (fine) FILL, moist, loose, olive brown (2.5 Y 4/3)	Silt loam FILL, gravelly (fine), moist, firm, dark grayish brown (10 YR 3/2)		Blind	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
	·	ine to medium),	ve brown (2.5 Y	ist, firm, dark			NOIT	Project ID : 2 Date Drilled : 9 Drilling Method : P GeologistTech : S Drilling Co. : K	
,				<u> </u>	,			: 2829E-005 : 9/6/2006 : Push-probe : Steve Cobb	_
	ω 4.		မ			₹	feet	- bb	06 0
	18.4	21.7	0.2	0.0	N	*	PID		OF BC
	Collected a soil sample for laboratory analysis (10-12')	Collected a soil sample for laboratory analysis (8-10')					REMARKS	General Location	LOG OF BORING KB-K
	rlaboratory	r laboratory					RKS	: Approx. 73' west & 62' north of the southwest : comer of Site bldg.	(Page 1 of 1)

09-12-2006 G:\CLIENTS\G\GENUIN~1\2829EG-	-1.THR\2829E-~2\BOR	ING-1\KB-L.BOR		<del></del>			·	ı — — — — — — — — — — — — — — — — — — —
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						GRAPHIC	ison (	AM
SAND, gravelly (fine), moist, loose, brown	SAND (fine), moist, loose, olive (5 y 4/3) SANDY LOAM, gravelly (fine to medium), moist to very moist, friable, gray (5 Y 5/1)		Silt loam FILL, gravelly (fine), moist, firm, dark grayish brown (10 YR 4/2)		Blind	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
e, brown	5 y 4/3) nedium), moist to	,	ist, firm, dark			NOITE	Project ID Date Drilled Drilling Method Geologist/Tech Drilling Co.	
							2829E-005 9/6/2006 Push-probe Steve Cobb	_
	2.7		ယ	5	\$	feet	# <del>5</del> 6 %	06
	58.6 30.7	17.3	0.0	8	8	PID .		OF BC
	Collected a soil sample for laboratory analysis (10-12')	Collected a soil sample for laboratory analysis (6-10')				REMARKS	General Location : Approx. 66' west & 24' : north of the southwest : comer of Site bldg.	LOG OF BORING KB-L (Page 1 of 1)

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09-12-2006 G:\CLIENTS\G\GENUIN~1\2829EG~1	.THRV2829	E-~2\BORING~T\KB-M	BOR							
	10-	<u> </u>		Ch.			0-	Depth in	х ≥л	ñ
								GRAPHIC	lison	
		SAND (fine), very gravelly (fine), moist, loose, dark olive gray (5 Y 4/2)	SANDY LOAM, gravelly (fine to medium), moist, firm, gray (5 Y 5/1)	Gravel FILL Silt loam FILL, gravelly (fine), very dark gray (5 y 3/1) w/ olive (5 Y 4/4)			Blind	DESCRIPTION	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E-005	KERAMIDA Environmental, Inc.
		noist, loose, dark	edium), moist, firm,	/ dark gray (5 y				TION	Project ID : 2829E-005 Date Drilled : 9/6/2008 Drilling Method : Push-probe Geologist/Tech : Steve Cobb Drilling Co. : Keramida	
		1.4	2.2			₹		reet.	2829E-005 9/6/2006 Push-probe Steve Cobb Keramida	LOG
		Çn —	N A	0.0	N	×		PID		OF BC
		Collected a soil sample for laboratory analysis (6-10')						REMARKS	General Location : Approx. 65' west & 1.5' : north of the southwest : comer of Site bldg.	LOG OF BORING KB-M (Page 1 of 1)

}	25	20		55		· · · · · ·	<u>.</u>	1.1.1.1.	5			Depth in feet		KER
•												GRAPHIC	_   KER 7 G	AM
								٠.			Blind Drilled (0-19.5')	DESCRIPTION	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
												IPTION	Project ID Date Drilled Drilling Method Geologist/Tech Drilling Co.	
									,				: 2829E : 10/10/2006 : HSA : Steve Cobb : Earth Exploration	L00
			N	5	<b>5</b>		₹		Z >	₹		feet	)6 bb bloration	의 유
·			ž	¥	Z	N _A	NA	NA	Ä	¥	¥ .	PID PID		BOR
			Riser. 0-9.5 Sand Pack 18-30' Bentonite: 2-7.5' Concrete: 0-2'	Well Construction: Screen: 9.5-19.5*								REMARKS	General Location : .	🙀 🛱
·	·	195		· · · · · · · · · · · · · · · · · · ·			ω G	7.5		2		Well: MW-132 Elev.: 711.74	: At former MW-132 : location	(Page 1 of 1)

V.

11-17-200	OO G.IOLII		NUIN~1\2829E			VELLCO~1		LBUR				<del></del>			Depth feet	T	
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						·							·	Blind Drilled (0-30')	DESCRIPTION	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
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	Sand Pack: 18-30' Bentonite: 2-18' Concrete: 0-2'	Well Construction: Screen: 20-30'							•	<b>a</b> to 10					REMARKS	General Location	LOG OF BORING MW-147AR
		1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		20		ò								2	Well: MW-147AR Elev.: 711.71	: At former MW-147A : location	(Page 1 of 1)

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		···		-	•							GRAPHIC		MAS
		·									Blind Drilled (0-25.5')	DESCRIPTION	Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	KERAMIDA Environmental, Inc.
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		Screen: 10.5-25.5' Riser: 0-10.5' Sand Pack: 8-25.5' Bentonite: 2-8' Concrete: 0-2'	Well Construction:									REMARKS	General Location	LOG OF BORING MW-148R
	25.5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10.5		1		2	r	Well: MW-148 Elev.: 711.44	: At former MW-148 : location	(Page 1 of 1)

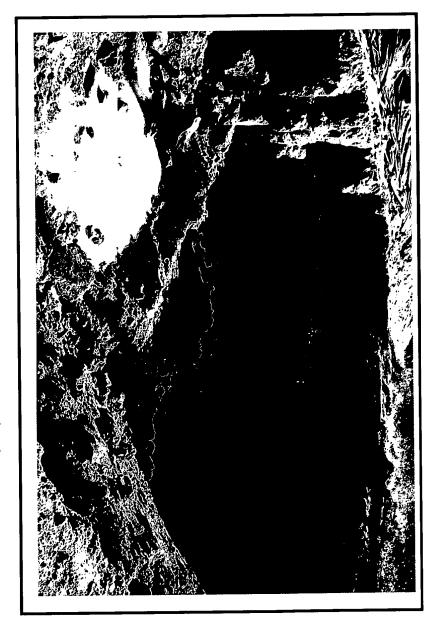


Photo 1. Area 3 Excavation - Facing South



Photo 2. Area 2 Excavation - Facing West

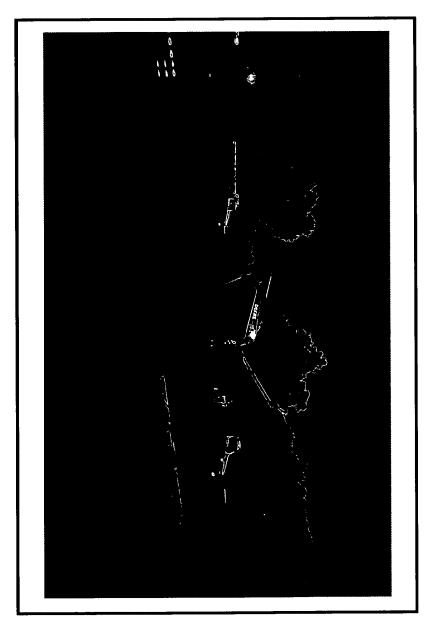


Photo 3. Area 1 Excavation

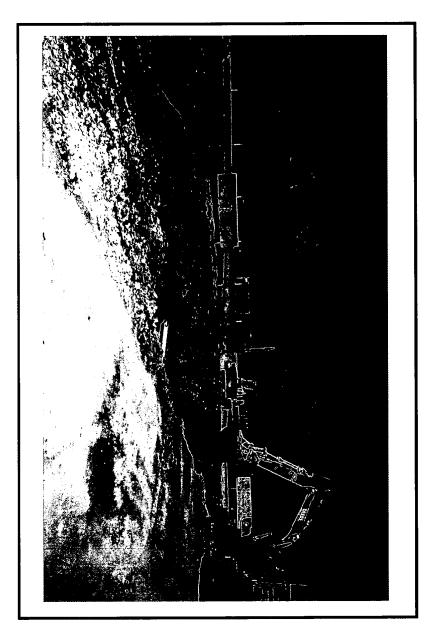


Photo 4. Area 1 Excavation - Facing North

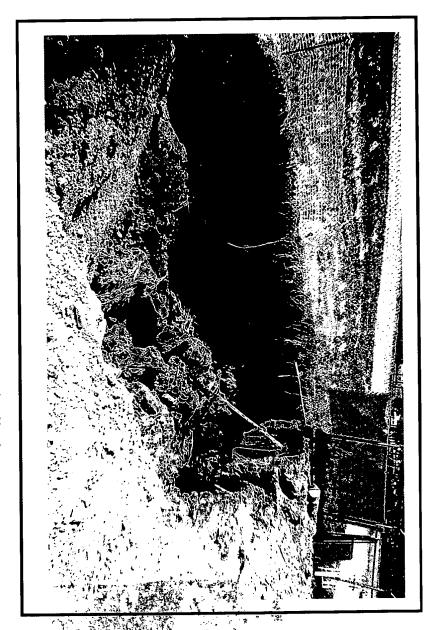


Photo 5. Area 2 Excavation - Facing North

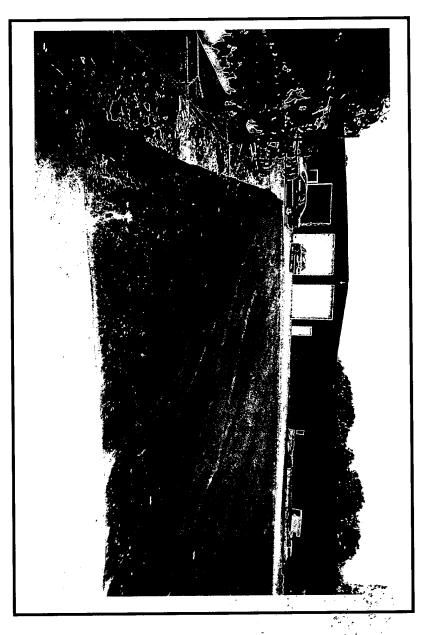


Photo 6. Final Asphalt Grade - Facing Southeast

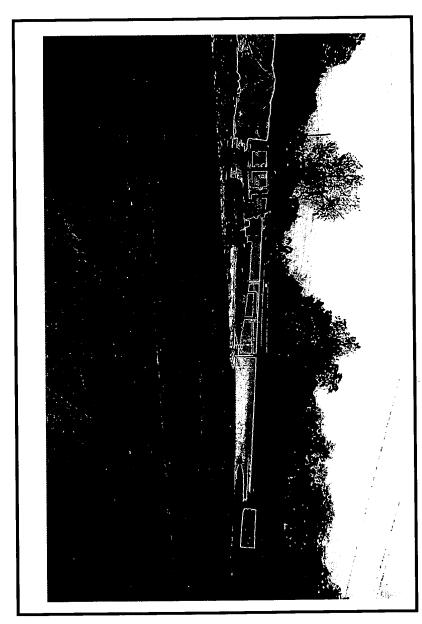


Photo 7. Final Asphalt Grade - Facing Northwest



## TRANSMITTAL

Project: c: KERAMIDA Environmental, Inc. <u>ö</u> Date: Remarks: Enclosed is EEI Project No.: 1-06-292 The enclosed items are being sent via: Location: Federal Express EEI Courier UPS Overnight Delivery by First Class Mail Record of Water Well – Abandonment – Record of Water Well – Installment – 402 W. Washington St., Rm W264 Indianapolis, IN 46204 September 28, 2006 Division of Water Indiana Department of Natural Resources Indianapolis, Indiana Genuine Parts Company [X] Copy [ ] Samples SEP 2 9 2005 でいる。 Sincerely, ndianapolis, iN 46214-2988 17-273-1690 (FAX) 317-273-2250

Mark N. Knuttel Project Coordinator

EARTH EXPLORATION, INC.



<u>Driller</u>--Mail complete record in 30 days to: INDIANA DEPT. OF NATURAL RESOURCES 402 W. Washington St., Rm. W264 Division of Water

County Permit Number **DNR Variance** 

Pumping Installation method Grout material Screen Casing Monitoring / environ. □ Bailing slot size ☐ Irrigation TEN LIGROUTING Test method Screen length (feet) of well (feet) Total depth Test hole ☐ Livestock Industrial / commercial Use of well Equipment operator-name OWNER-CONTRACTOR FOR THE length (feet) Drilling contractor-name Building contractor-name Address (number and street, city, state, ZIP code) Well owner-name If drilled for water supply, this well is: Well address: 👇 🗠 Driving directions to the well location (include trip origin, street & road names, intersecting roads, Show well address below and subdivision in box at lower right. There is space for a map on the reverse side. herewith is, to the best of my knowledge and I hereby swear or affirm, under the penalties for perjury, that the information submitted belief, true, accurate, and complete Fill in completely they the Exploration Berns Home Public supply See Marion 300 CAB Č ere drilled attached may 火 Ŋ. Æ Novor 环 Tight below surface Static level North from Screen No. of bags used diameter (in.) CONSTRUCTION DETAILS TO THE STATE OF THE STA Casing diameter (in.) Borehole Grout depth (clear, odor, etc.) Water quality diameter (in.) Perty Other: 风 Auger (including HSA) ☐ Direct push ☐ Bucket / bore ☐ Cable tool □ Reverse rotary □ Rotary Drilling method Judrew 0 Jet ಠ 20/12 1 per min. Gallons Buewue 4 Sealing material Signature of drilling contractor or authorized representative Installation method Comercado Compound Д. ☐ First well on property Averve Civil township name Ţ Swfore 37 WELL ABANDONMENT mon. Other: Other: م میریم tested Hours Screen material ** Casing material inserted Gravel pack Ş nd law Address (number and street, city, state, ZIP code) 7770 W. New YWE Address (number and street, city, state, ZIP code, Expluration 4 setting (feet) Other: □ No pump installed □ Deep-well jet ☐ Shallow-well jet Pump depth ☐ Submersible Type of pump (877) 928-3755 toll-free or (317) 232-4160 (change in level) Drawdown apolus 4 No. of bags used from Depth filled Indianapolis, IN 46204-2641 かり see attacked table) Well Downdonwent □ Steel ☐ Steel □ PVC □ Vo □ PVC ☐ Replacement well ಕ Yes License number of operator feet 12t ٤ and compass directions). 太 Fownship number (N-S) 72011 4 25,2 See afached Cararisation Sumpremy 28 FORMATIONS: Type of material Additional space for well log and comments on reverse side

MUST BE SIGNED OR STAMPED Date Subsurface ç may s attackaseD Additional well on property Jose ところ ところ JAVELL LOG # see affired summany time Range number (E-Date of well completion Subdivision name & lot number (if applicable) Datum GPS used **UTM Easting UTM Northing** portural しまいないかいかい detar(v E C Number ş Telephone number □ NAD 27 Male 530 ran ٤ Telephone number 0691.542.418 elephone number Include if applicable Section 9.28.06 (feet) □ NAD 83 Dry hole 2 (feet) 7

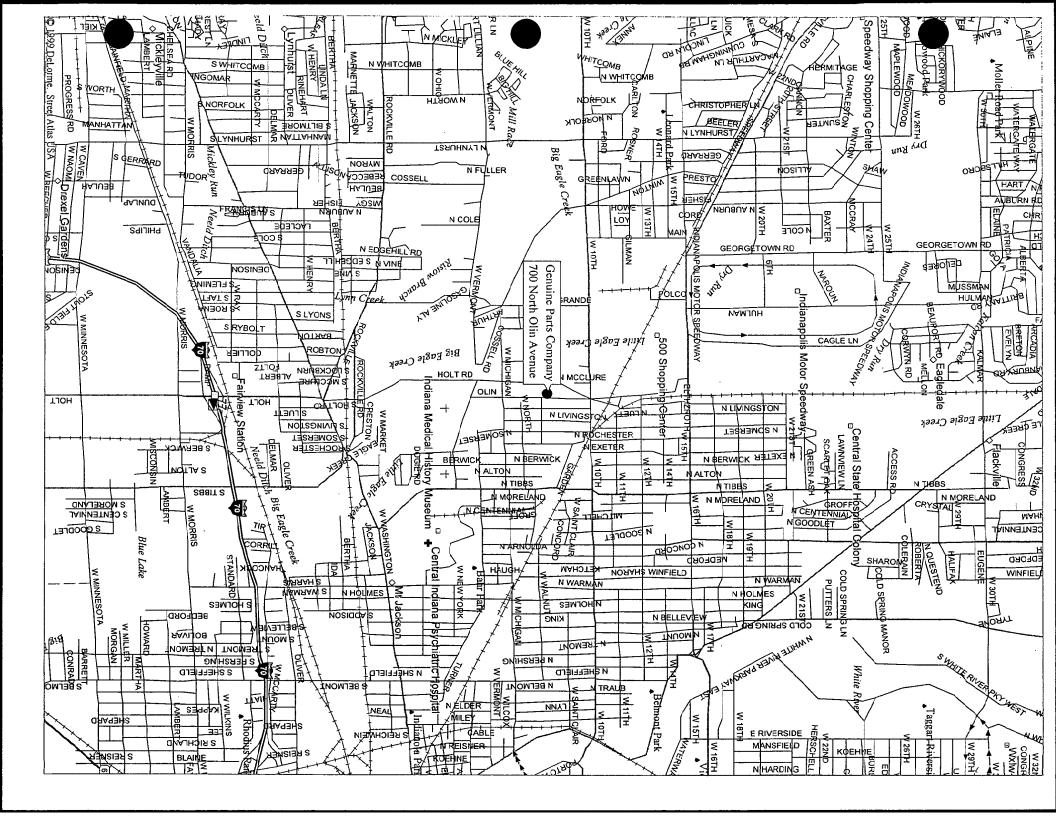
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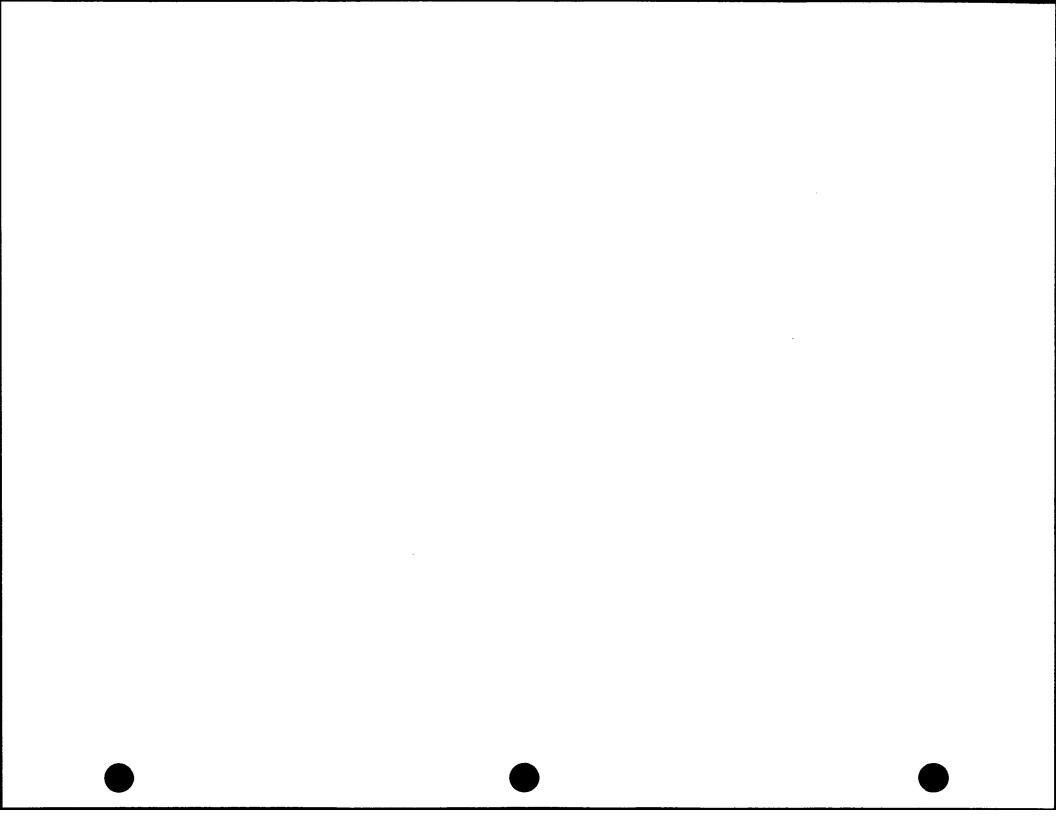


## WELL ABANDONMENT SUMMARY

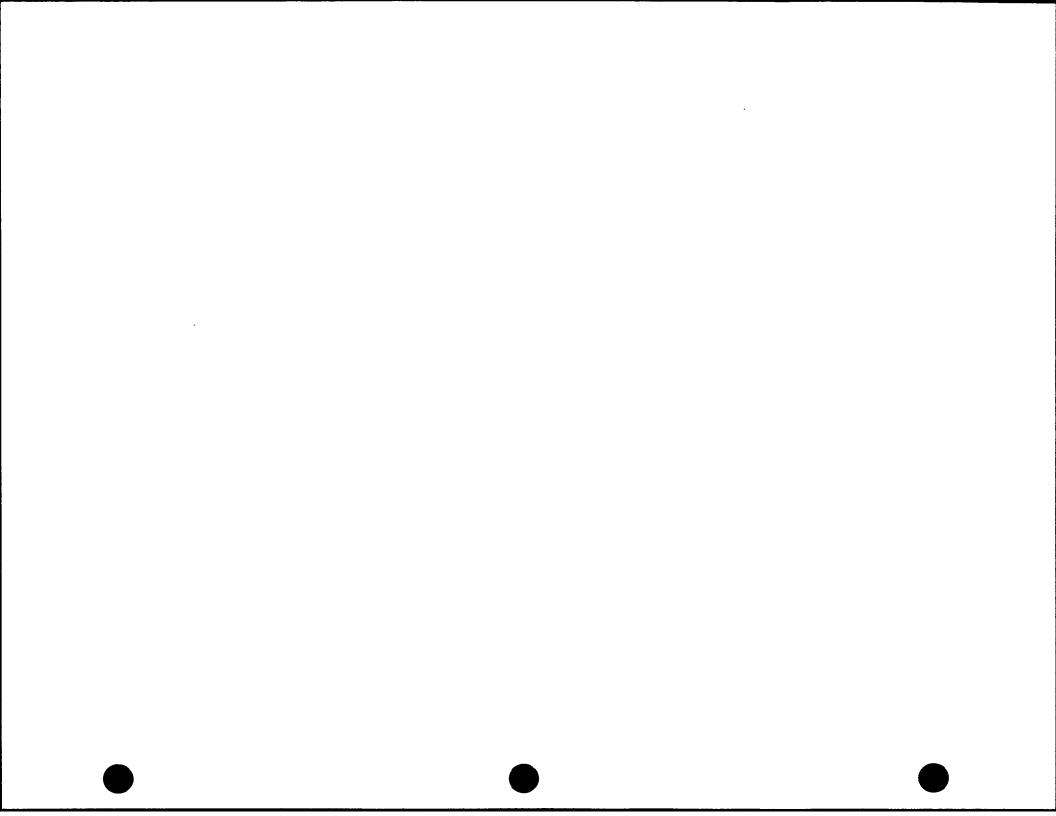
Project: Genuine Parts
Location: Indianapolis, Indiana
Client: KERAMIDA Environmental, Inc.
Driller: Bernie Judy and Andrew Carpenter
EEI Project No.: 1-06-292

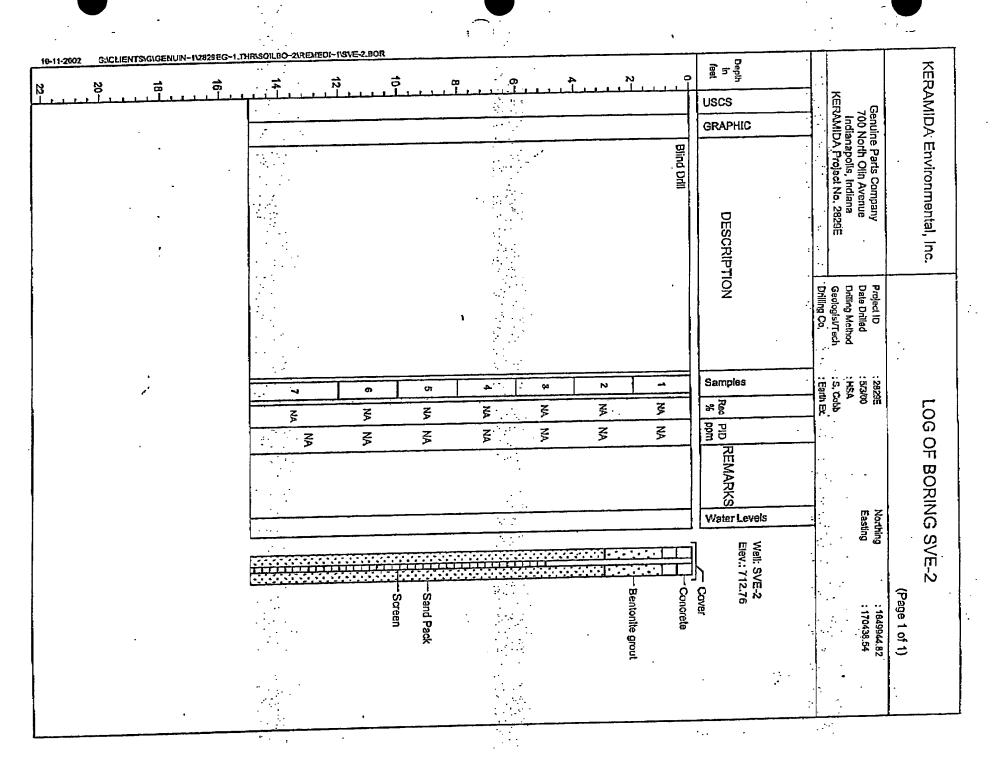
					<b>&gt;</b>	1-1-1-7	
Date	Well No.	Casing & Screen Dlameter/Type	Screen Length (ft)	Screen Slot Size	Casing Length (ft)	of Well (ft)	Footage (ft)
8-21-06	SVE-1	2" I.D. Schedule 40 PVC	10	0.010	8.5	18.5	16.5
8-21-06	SVE-2	2" I.D. Schedule 40 PVC	10	0.010	10.4	20.4	18.4
8-21-06	SVE-3	2" I.D. Schedule 40 PVC	10	0.010	9.75	19.75	17.75
8-21-06	SVE-4	2" I.D. Schedule 40 PVC	10	0.010	9.7	19.7	17.7
8-21-06	SVE-5	2" I.D. Schedule 40 PVC	10	0.010	8.4	18.4	16.4
8-29-06	SVE-6	2" I.D. Schedule 40 PVC	10	0.020	5.0	15.0	13.0
8-29-06	SVE-7	2" I.D. Schedule 40 PVC	10	0.020	9.0	19.0	17.0
8-21-06	SVE-28S	2" I.D. Schedule 40 PVC	4.5	0.010	1.0	5.5	5.0
8-21-06	SVE-28D	2" I.D. Schedule 40 PVC	ა	0.010	6.5	11.5	11.0
8-21-06	SVE-29S	2" I.D. Schedule 40 PVC	4	0.010	1.2	5.2	5.0
8-21-06	SVE-29D	2" I.D. Schedule 40 PVC	4	0.010	6.3	10.3	10.0
8-21-06	SVE-31S	2" I.D. Schedule 40 PVC	4	0.010	1.4	5.4	5.0
8-21-06	SVE-31D	2" I.D. Schedule 40 PVC	4	0.010	1.6	10.6	10.0
8-29-06	SVE-32S	2" I.D. Schedule 40 PVC	4	0.020	1.0	5.0	5.0
8-29-06	SVE-32D	2" I.D. Schedule 40 PVC	4	0.020	6.4	10.4	10.0
8-21-06	MW-147A*	2" I.D. Schedule 40 PVC	10	0.010	17.95	27.95	25.95
9-1-06	MW-148	2" I.D. Stainless steel	10	0.010	13.5	23.5	21.5
8-21-06	MW-132*	2" I.D. Stainless steel	10	0.010	10.3	20.3	18.3
Depths an	Depths are approximate. * - Boring logs not available	ile.					

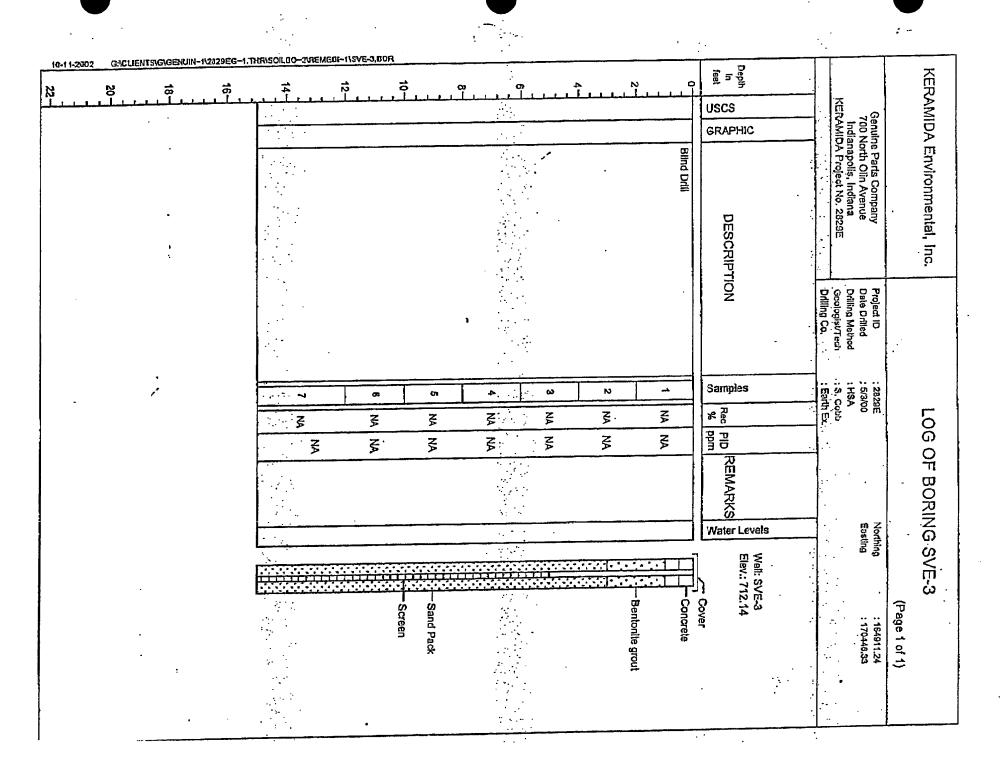




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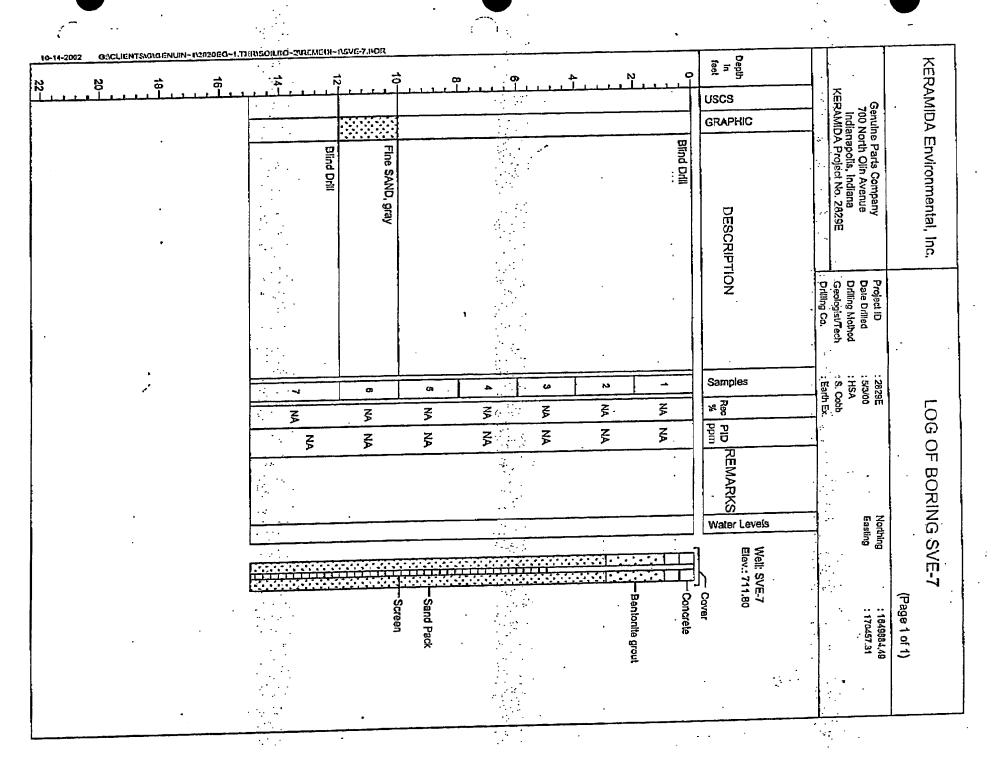


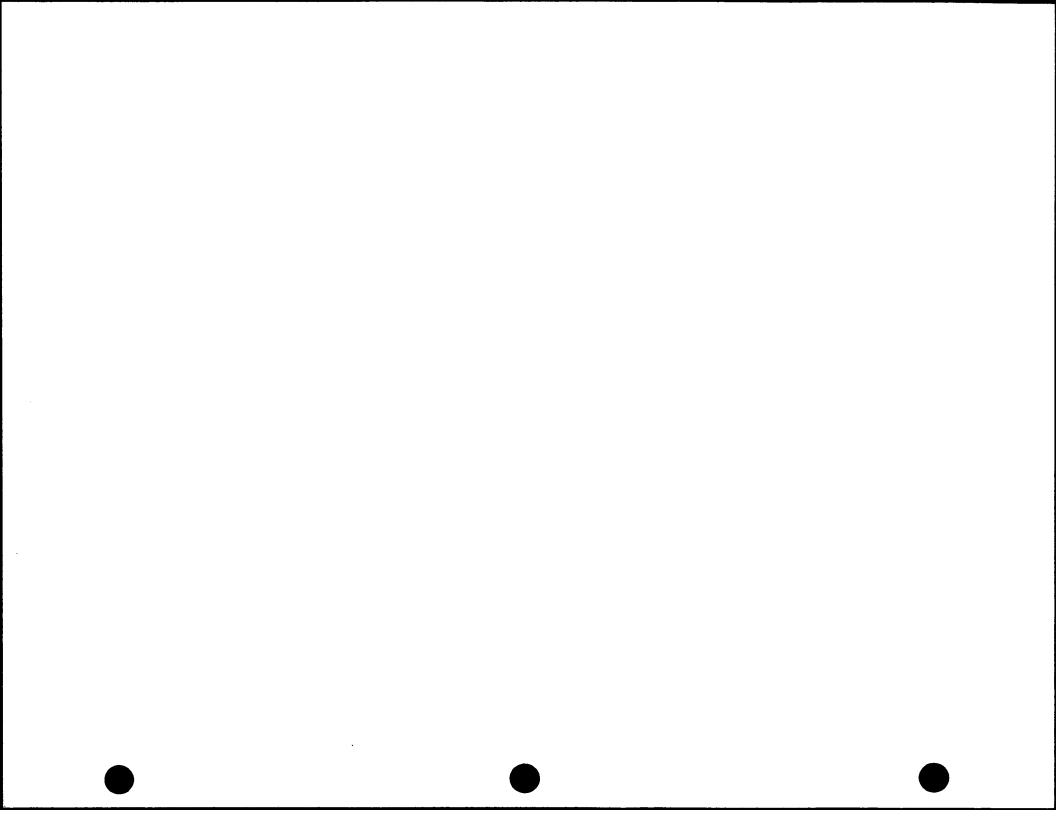


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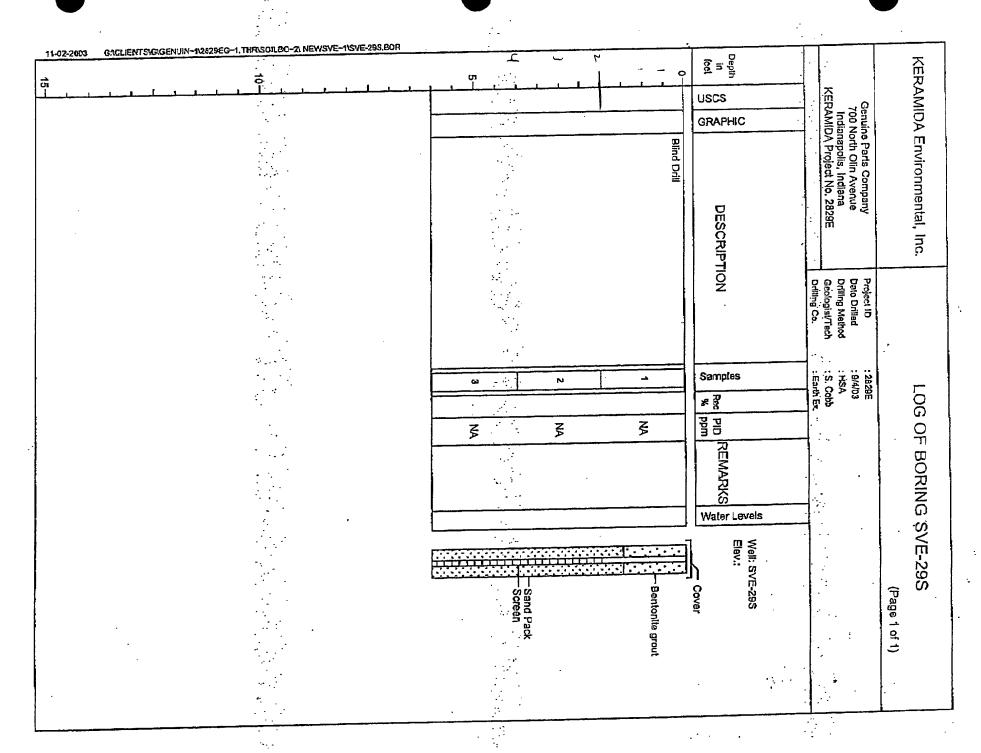


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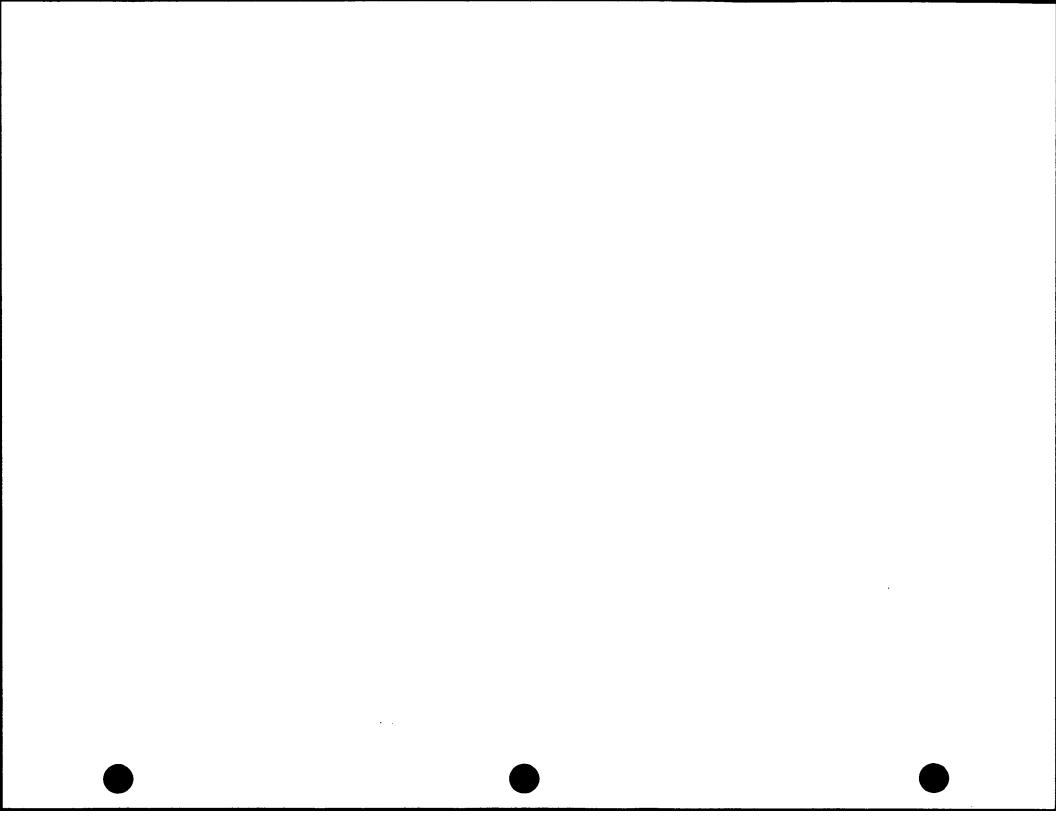
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